

RevAdmin User Guide

Version: 1.9.5

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Introduction

Copyright and Licensing



RevAdmin

Distributed by Boyce Industries Pty Ltd

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General Introduction

Welcome to the Reveloc system from Boyce Industries.

Boyce Industries provides both customised and off-the-shelf style software and mapping solutions for tracking vehicles fitted with a GPS and appropriate communications hardware.

The system provides basic functionality that allows one or more vehicles to be tracked on one or more maps via a continuous polling or position on demand mechanism.

You should be generally familiar with the use of Microsoft Windows XP (or later) and some database / networking knowledge may be required if you are wanting to install / maintain the system without assistance.

This User Manual will detail the various operational functions of the Administrative side of Reveloc and should be read in conjunction with the Reveloc Viewer manual where appropriate.

As an overview, the User Manual is broadly divided into the following:

Installation
Registration
Getting Started
Configuring RevAdmin
Fleet Manager
Device Manager
Base Device Controller
Display Summarys

Installation

Reveloc can be configured to use any of the following databases:

- Microsoft SQL Server 2000 / 2005 / 2008 / 2012
- Microsoft SQL Server Express 2005 / 2008 / 2012
- Microsoft Desktop Engine (MSDE 2000)
- Microsoft Access

SQL Server / MSDE

If you wish to use either SQL Server or MSDE you will need to run the RevServer structure and data .sql scripts located in the SQL folder of the supplied CD / DVD and set up any users with appropriate permissions before running either the RevAdmin or RevViewer programs. RevAdmin uses Windows Authentication as its means of accessing the RevServer database.

IMPORTANT: Before applying the script you should also make sure that the data path specified in the RevServer-*version*-Structure.sql matches your installation. The default folder set in the script for both the Data file and the Log file is: C:\Program Files\Microsoft SQL Server\MSSQL10.SQLEXPRESS\MSSQL\DATA

General

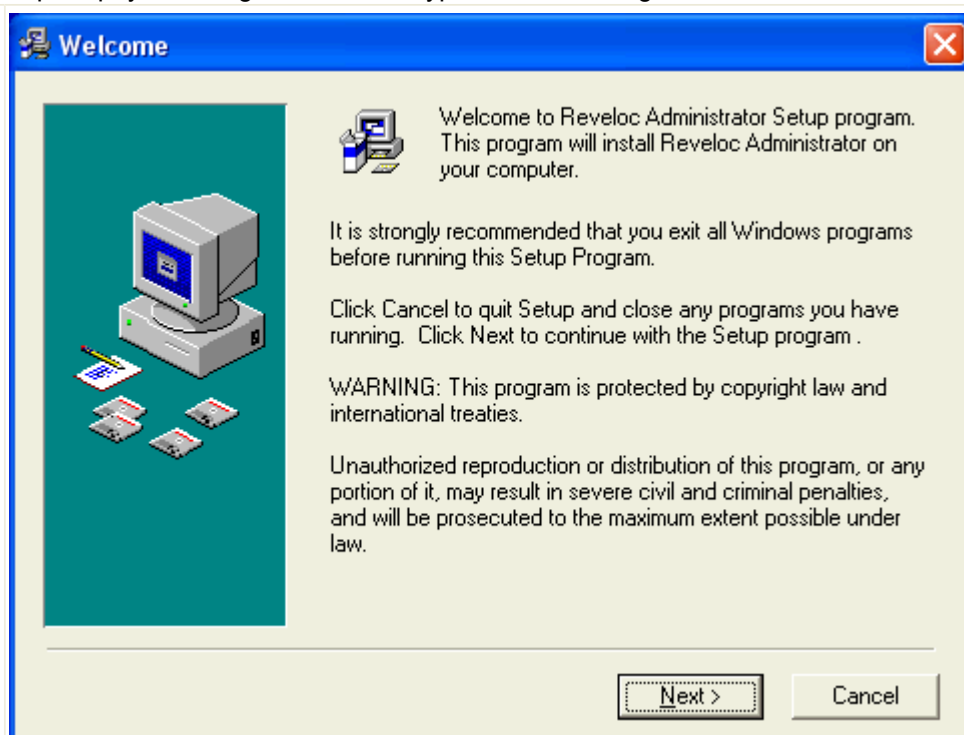
That said (and done), you can now start installing RevAdmin as follows:

1. Insert the supplied disc into the appropriate drive.
2. Double click on My Computer, select the appropriate Drive letter (e.g. F) and open the drive.
3. Select the RevAdmin-Setup.exe icon and double-click to activate the install mechanism.

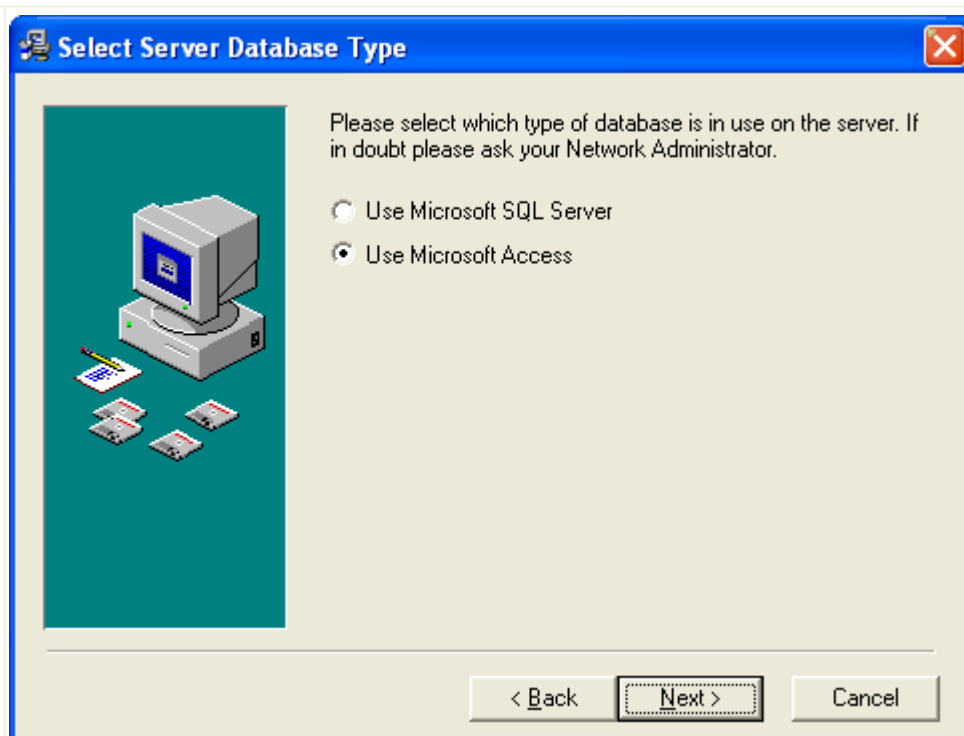


The install program will now prompt you through a series of 'Typical' install dialogue screens.

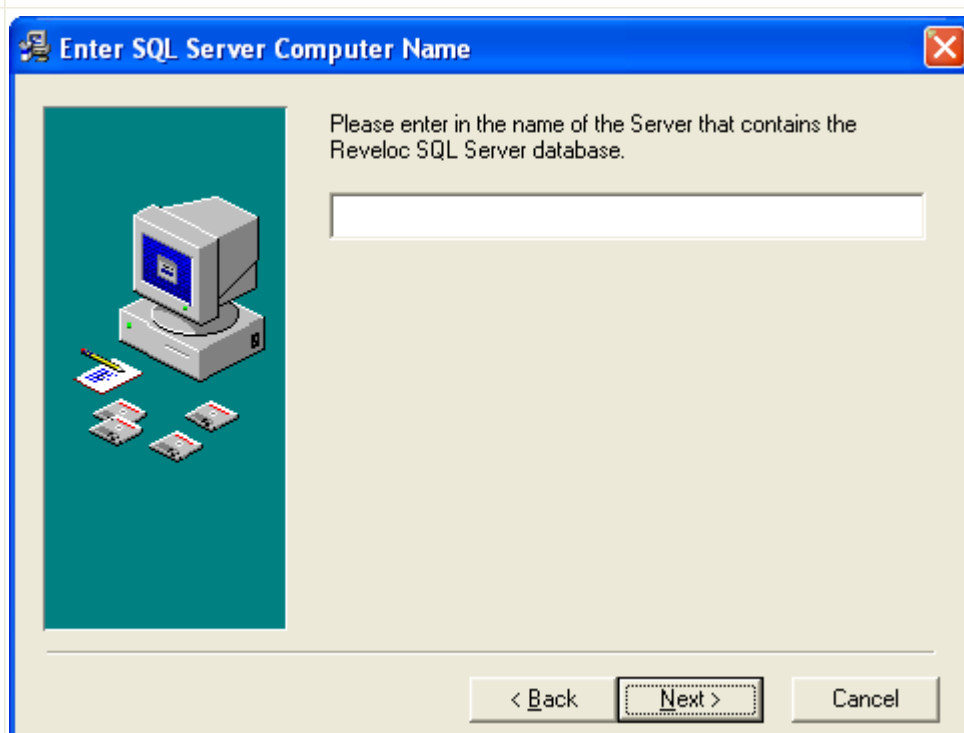
4. Select **Next** to proceed or **Cancel** to quit the installation procedure.



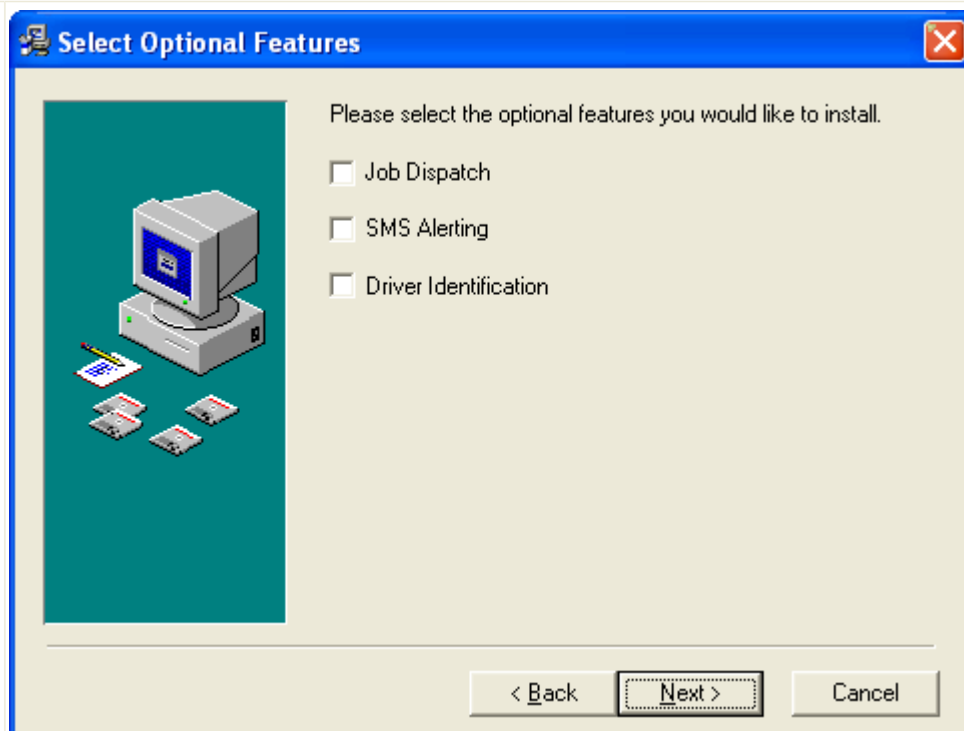
5. After the **License Agreement** and **Destination Selection** dialogues you can choose the type of database you wish to use. Microsoft Access is the default selection, if you are using it then click **Next** and skip to Step 7 otherwise select the SQL Server option and click **Next**.



6. Enter in the name of the computer that is running the instance of SQL Server where you setup the RevServer database and click **Next**.



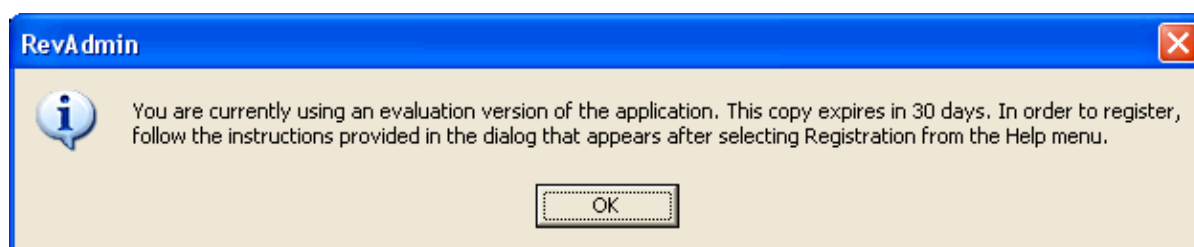
7. You should now see a dialogue that allows you to choose the optional features to use with Reveloc. Simply place a check in the box of each feature you intend to use and click **Next**.



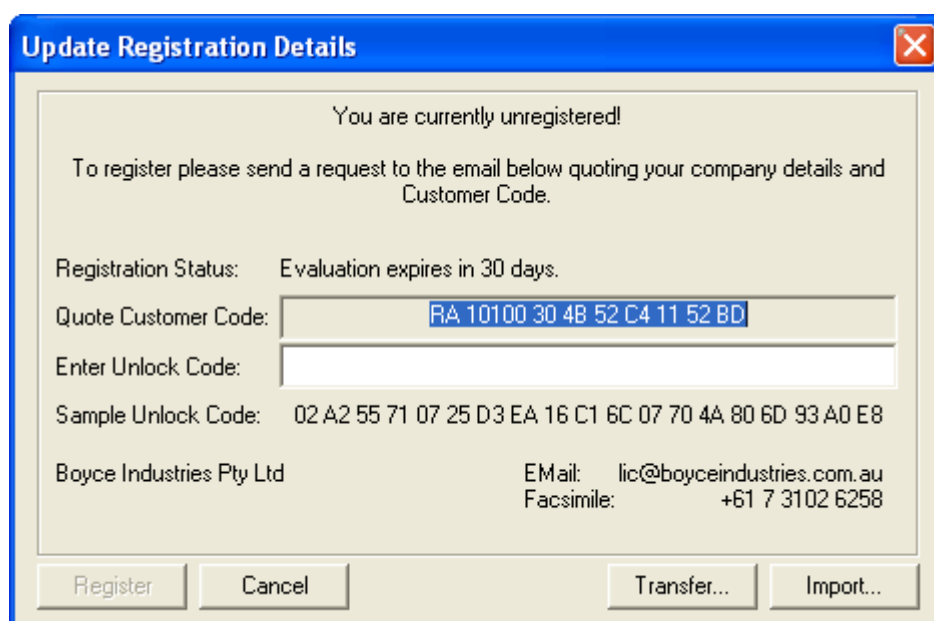
Follow the rest of the on screen instructions to complete the installation. Please note that you will need to restart the computer at the end of the process.

Registration

Once installed, RevAdmin will allow you to use the program's features and have one active RevViewer connection for a period of 30 days without registering. While unregistered you will be prompted with a message window each time you start the application.



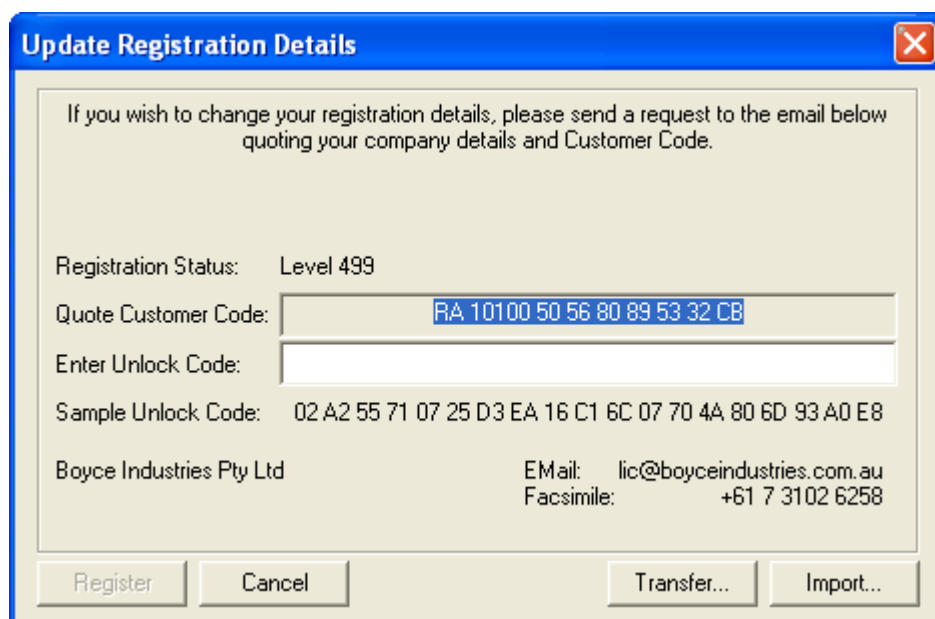
In order to register, choose the **Registration** item from the **Help** menu. You should see a window appear similar to the one below.



Registration is currently available via facsimile or email:

1. Highlight the **Customer Code**, if it isn't already.
2. Copy and Paste it into an email or fax and send it to the appropriate address or fax number.
Codes are usually processed within 1 business day.
3. Once you have received the **Unlock Code**, copy and paste it in to the space provided.
The Register button should now be enabled.
4. Click the **Register** button.
If the code was correctly verified, you should see a small popup window with a Confirmation Code that matches the one sent with your Unlock Code.

Once you have successfully registered, next time you select the Registration item you will see a dialog similar to the following:



The dialog box titled "Update Registration Details" contains the following information:

If you wish to change your registration details, please send a request to the email below quoting your company details and Customer Code.

Registration Status: Level 499

Quote Customer Code: RA 10100 50 56 80 89 53 32 CB

Enter Unlock Code: [Empty text box]

Sample Unlock Code: 02 A2 55 71 07 25 D3 EA 16 C1 6C 07 70 4A 80 6D 93 A0 E8

Boyce Industries Pty Ltd EMail: lic@boyceindustries.com.au
Facsimile: +61 7 3102 6258

Buttons: Register, Cancel, Transfer..., Import...

Transferring Licenses

RevAdmin uses a floating license as part of its security system. The **Transfer...** and **Import...** buttons



are used to transfer the licence to a floppy disk so that it can be transferred to another computer computer and be re-imported.

Important:

- If you do not register the product within the specified period then you will be presented with a Registration dialog as soon as you try and run the application.
- Once a license has been transferred off a particular PC, that installation of RevAdmin will no longer run until the license is re-imported.
- License transfer via floppy disk is NOT supported for USB drives!

Getting Started

Main Screen

By default, a shortcut for RevAdmin is installed in the Windows Startup menu so that the application starts automatically when Windows does. An icon will also be placed on the desktop and can be used to restart RevAdmin if necessary. The RevLauncher program runs in the background and continuously monitors the state of the RevAdmin program. If for some reason RevAdmin becomes unresponsive or a user accidentally closes it down, RevLauncher will automatically restart it. If RevLauncher itself has been shut down and is not running, it can be started by:

1.



Reveloc

Double clicking on the Administrator desktop Icon or

2. Clicking on the Start button, selecting **Programs** then **Boyce Industries** and selecting the Reveloc Administrator item or

3. Double clicking on the **RevLauncher.exe** file in the applicable directory.

This will activate the software and present the Main screen from which all functions are activated.

The screenshot displays the RevAdmin software interface with the following components:

- Call History:** A table showing recent calls.

Id	Call	Time	Remote Unit
01	[Icon]	14:46:37	BOYCE-T101
02	[Icon]	14:45:50	BOYCE-02
03	[Icon]	14:45:28	BOYCE-T101
- Device Manager:** A table of available devices.

Type	Name	Port	Queue	Status
[Icon]	Hytera Base	*	0	Idle
[Icon]	IDAS Base	9	0	Idle
[Icon]	SANav Base	7700	0	Idle
[Icon]	Tait Base	1	0	Idle
- Pool Manager:**
 - Available Devices:** Hytera
 - Pool Base Devices:** Hytera Base
 - Pooling List:**

Group / Vehicle	Poll	On
Hytera		
HYT012	[Green Check]	[Green Check]
HYT013	[Green Check]	[Green Check]
HYT100	[Green Check]	[Green Check]
 - Pooling Status:** Polling HYT012 in 33 seconds
- Fleet Manager:**
 - Vehicles:**
 - Hytera Units: HYT012, HYT013, HYT100
 - Icom PMR-IDAS Units: BOYCE-01, BOYCE-02
 - SANav - IP Gateway Units: BOY-024, BOY-130A, BOY-130B, BOY-130C
 - Tait PMR Units: BOYCE-T101, BOYCE-T102
 - Fleet Groups:**
 - Hytera: HYT012, HYT013, HYT100
 - IDAS Demo: BOYCE-01, BOYCE-02
 - SanJose: BOY-024, BOY-130A, BOY-130B, BOY-130C
 - TM8xxxx Service: BOYCE-T101, BOYCE-T102
- Vehicle Summary:**

Id	Poll	Vehicle	Hdg	Kph	Elapsed	Locality	Geofence	Status	Last Msg	Ign
4	[Yellow Warning]	BOY-130C	NNE	3	> 1 week	Buderim	Boyce Yard	--M-I	Position	N
5	[Green Check]	BOYCE-01	N	0	> 1 week	Buderim	Boyce Yard	G-M--	Inside Geo	N
6	[Green Check]	BOYCE-02	NNW	2	00:00:47	Buderim	Boyce Yard	G-M--	Inside Geo	N
7	[Green Check]	BOYCE-T101	N	0	00:00:22	Buderim	Boyce Yard	G-M--	Inside Geo	N
8	[Green Check]	BOYCE-T102	-	0	> 3 days	?		--M-I	Position	N
9	[Green Check]	HYT012	SE	0	00:00:26	Buderim	Boyce Yard	G-M--	Inside Geo	N
10	[Green Check]	HYT013	N	0	00:00:15	Buderim	Boyce Yard	G-M--	Inside Geo	N
11	[Green Check]	HYT100	N	0	00:00:10	Buderim	Boyce Yard	G-M--	Inside Geo	N
- Event Summary:**

Event	When	Vehicle	Description
NOTIFY	2012/02/08 14:46:34	HYT100	Normal Position
NOTIFY	2012/02/08 14:46:37	BOYCE-T101	Missed call from: BOYCE-T101
NOTIFY	2012/02/08 14:46:52	BOYCE-T101	Normal Position
NOTIFY	2012/02/08 14:46:57	BOYCE-02	Normal Position
NOTIFY	2012/02/08 14:47:18	HYT012	Normal Position
NOTIFY	2012/02/08 14:47:22	BOYCE-T101	Normal Position
NOTIFY	2012/02/08 14:47:30	HYT013	Normal Position
NOTIFY	2012/02/08 14:47:34	HYT100	Normal Position

Main Toolbar



The Main Toolbar is always visible and contains the following buttons.

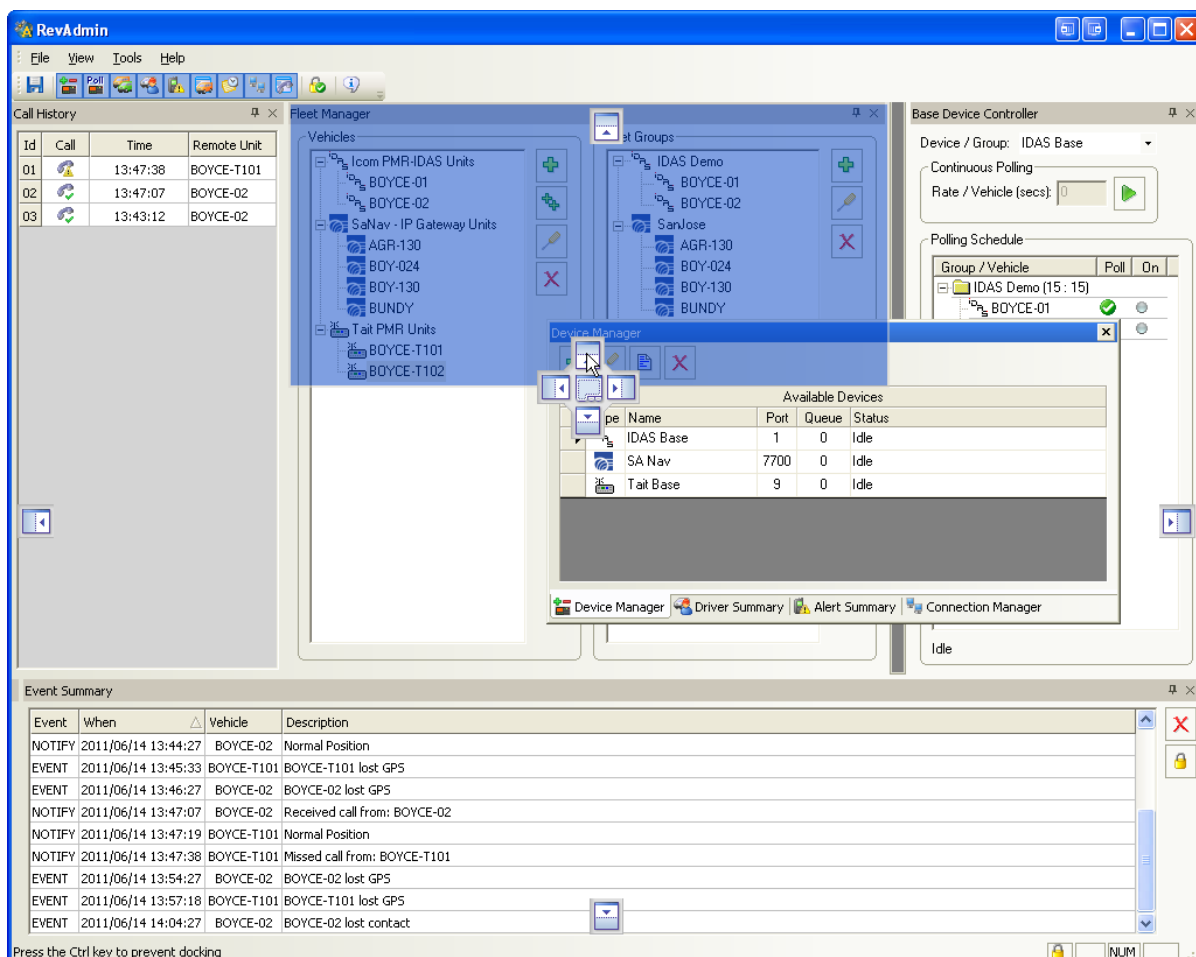
	Toggles the display of the Device Manager window to allow the various communications ports to be configured.
	Toggles the display of the Pool Manager window to control vehicle polling.
	Toggles the display of the Fleet Manager window for adding / editing vehicle details.
	Toggles the display of the Driver Summary window for adding / editing Driver Key Tag associations.
	Toggles the display of the Alert Summary window used for entering in Contacts mobile phone numbers and associating vehicles with them.
	Toggles the display of the Vehicle Summary window that gives an overview of each vehicle in the poll list.
	Toggles the display of the Event Summary window that displays a list of "events" that have occurred since program commencement.
	Toggles the display of the Connection Manager window that displays a list of connected users.
	Toggles the display of the Call History window that displays a chronologically sorted list (most recent first) of calls received / missed by any of the base units.
	The Switch Admin Mode button is enabled when Password Protection is on and allows toggling between Edit and Locked mode.
	The About button brings up a window that displays version and build information for the currently installed instance of RevAdmin.

Docking Windows

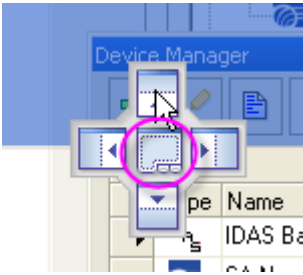
A number of RevAdmin's controller windows can be "docked" to the frame of the main window. These include:

- Device Manager
- Fleet Manager
- Connection Manager
- Device Controller
- Vehicle Summary
- Event Summary
- Driver Summary
- Call History

Windows can be moved around by clicking and holding down the left mouse button on a Windows' title bar. After you start to drag the window, a number of docking highlights will pop up on the screen as you move the window over other windows. Simply move the mouse cursor over the highlight to see what effect the docking will have. The shaded purple area indicates the position of the window after the mouse button is released.



If you move the window over the top of one that is already docked, you also have the option of adding that window as another tab by releasing the mouse over the centre Tab icon.



If you do not want the window to dock, simply hold down the Ctrl key while you are moving it. Double clicking the left mouse button on a window's title bar will also undock it.

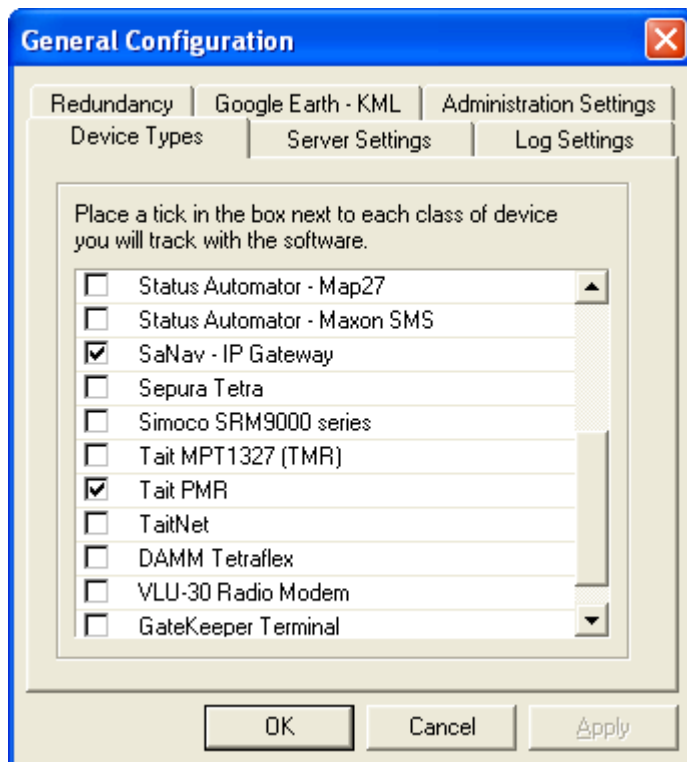
Configuring RevAdmin

General Configuration

The General Configuration window can be accessed from the **General Configuration...** item on the **Tools** menu.

Device Types

The **Device Types** section provides for control over the types of base devices that you will be using for your installation of Reveloc. Generally you will only need to select one checkbox (unless you have a mixed communications fleet).

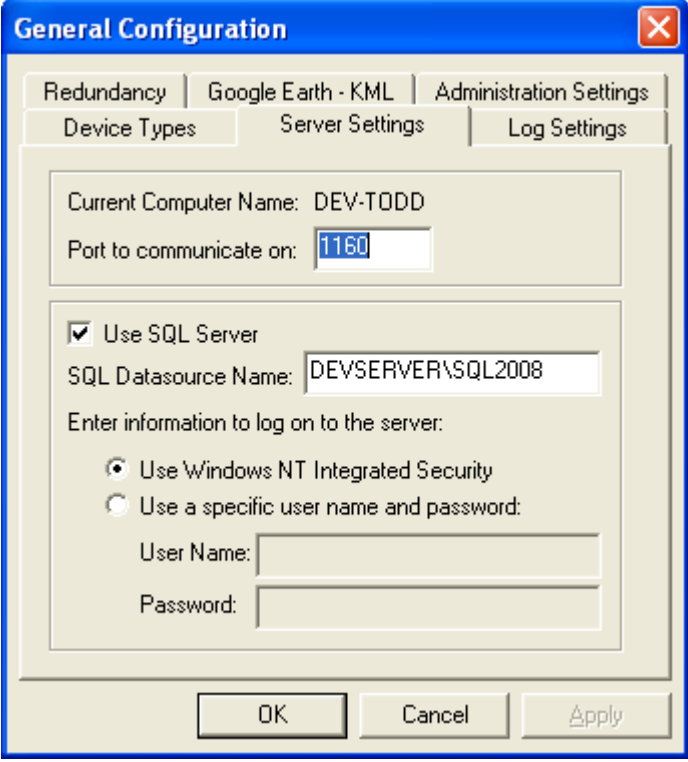


Please note that any changes to these settings will require you to restart the RevAdmin application in order for everything to function correctly.

Server Settings

The **Server Settings** section displays the Computer Name that RevViewer users will need to connect to. It also contains a field that allows you to specify which port the RevAdmin program will "listen" on for remote connection requests from RevViewer users. Please ensure these settings are correct on the RevViewer client(s) if they are having trouble connecting and that the server has the port in question open.

The other option provided indicates whether or not the program should use a SQL Server database and if so what the name of the server computer is and how it should be accessed for log on purposes.



The image shows a Windows-style dialog box titled "General Configuration" with a close button (X) in the top right corner. It has four tabs: "Redundancy", "Google Earth - KML", "Administration Settings", and "Log Settings". The "Server Settings" tab is currently selected. Inside the dialog, there are two main sections. The first section contains two labels: "Current Computer Name:" followed by the text "DEV-TODD", and "Port to communicate on:" followed by a text box containing "1160". The second section starts with a checked checkbox labeled "Use SQL Server". Below this is a label "SQL Datasource Name:" followed by a text box containing "DEVSERVER\SQL2008". Underneath is the text "Enter information to log on to the server:". There are two radio buttons: the first is selected and labeled "Use Windows NT Integrated Security", and the second is labeled "Use a specific user name and password:". Below the radio buttons are two text boxes: "User Name:" and "Password:", both of which are currently empty. At the bottom of the dialog are three buttons: "OK", "Cancel", and "Apply".

General Configuration

Redundancy | Google Earth - KML | Administration Settings | Log Settings

Device Types | **Server Settings** | Log Settings

Current Computer Name: DEV-TODD

Port to communicate on: 1160

☒ Use SQL Server

SQL Datasource Name: DEVSERVER\SQL2008

Enter information to log on to the server:

☒ Use Windows NT Integrated Security

☐ Use a specific user name and password:

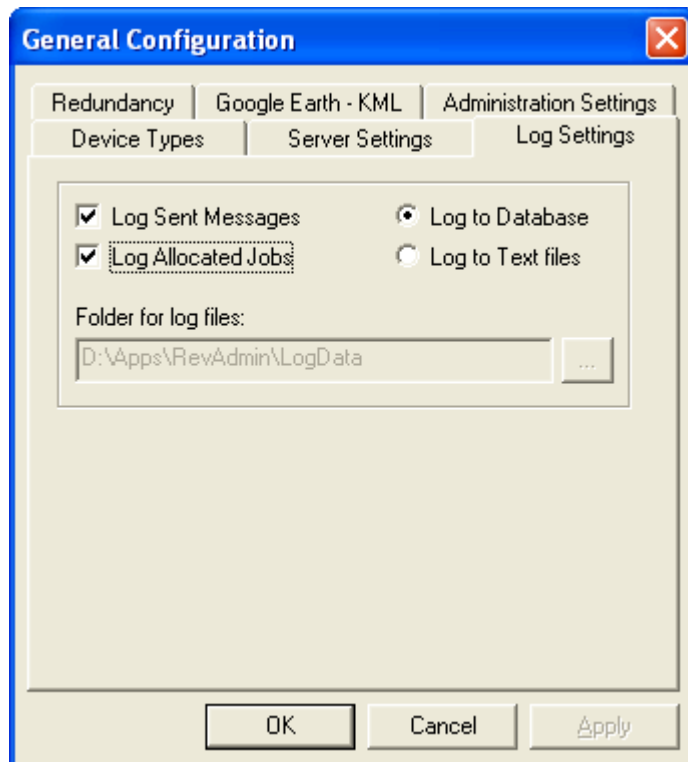
User Name:

Password:

OK Cancel Apply

Log Settings

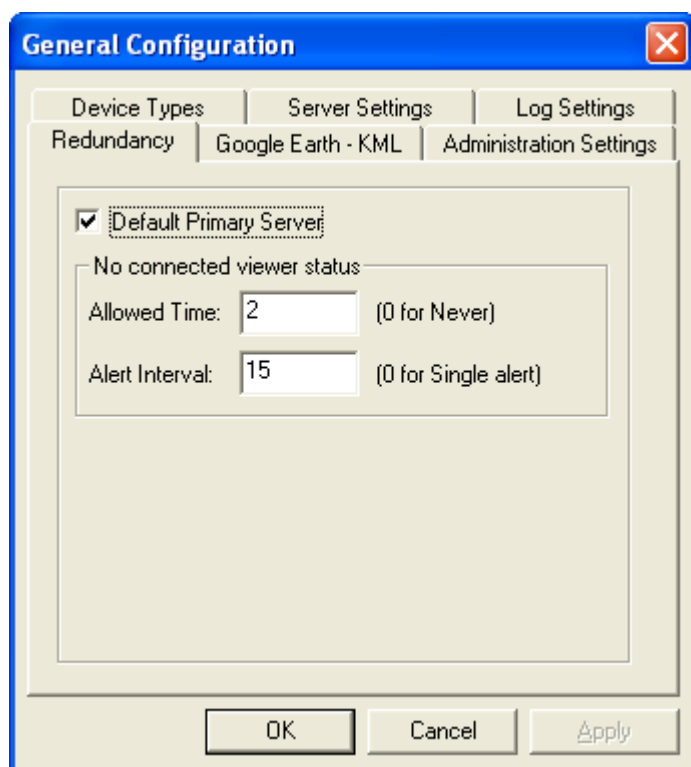
The **Log Settings** section allows for the customisation of several logging options not covered by individual devices or vehicles.



Log Allocated Jobs	If ticked, writes out a line to a text file after each job is sent to a mobile. When the Log to Text files option is set one file will be generated per day and named as follows: <i>Allocated Job Log YY-MM-DD.log</i>
Log Sent Messages	If ticked, writes out a line to a text file after each message is sent to a mobile. When the Log to Text files option is set one file will be generated per day and named as follows: <i>Sent Message Log YY-MM-DD.log</i>
Folder for log files	Folder where the above log files will be stored (only relevant if logging to text files).

Redundancy

The **Redundancy** section allows for the 'role' of RevAdmin to be set. Installations that have no redundant copy of RevAdmin running on a second server should always have the **Default Primary Server** box ticked. This ensures that RevViewer clients connecting to this instance of RevAdmin will receive notification of vehicle positions / events. If the copy of RevAdmin is actually the 'secondary' instance then leave this box unchecked.

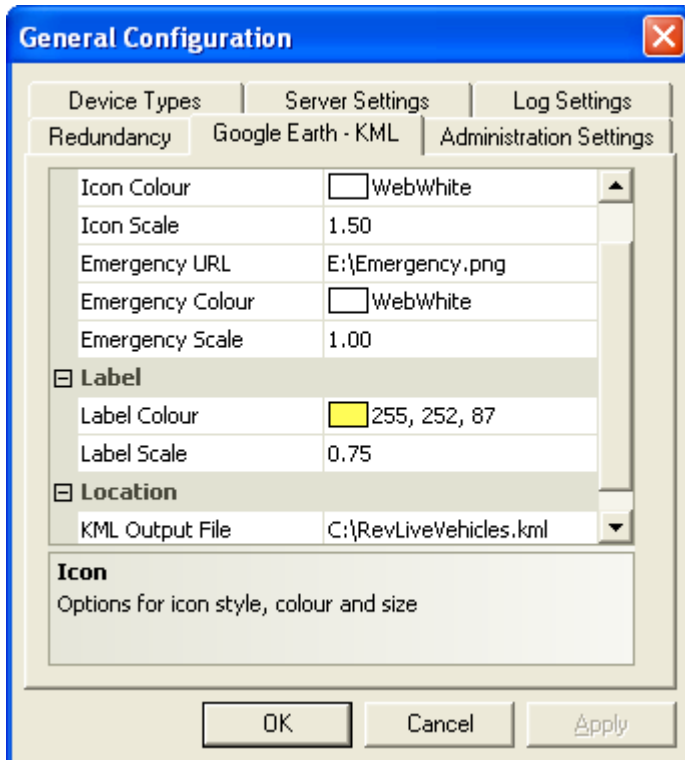


No connected viewer status

When RevAdmin is being used as part of an emergency monitoring system it may be desirable to notify system administration personnel if there are no RevViewer clients connected. The **Allowed Time** value represents the number of minutes that can elapse without any connections being present before an alert is raised. If the situation is not remedied within **Alert Interval** minutes then further notifications are sent at this interval.

Google Earth - KML

Users wishing to take advantage of Google Earth's network link facility can setup RevAdmin to dynamically update a KML file via this tab.



The KML Output File field can be used to enter or select a file to output the appropriately formatted data to whilst the other fields allow various shape, colour, label and size features to be customised.

It should be noted that the Icon URL (off screen), Icon Colour and Icon Scale entries are simply used as defaults and are generally superceded by setting these values for specific Vehicle Classes via the Fleet Manager.

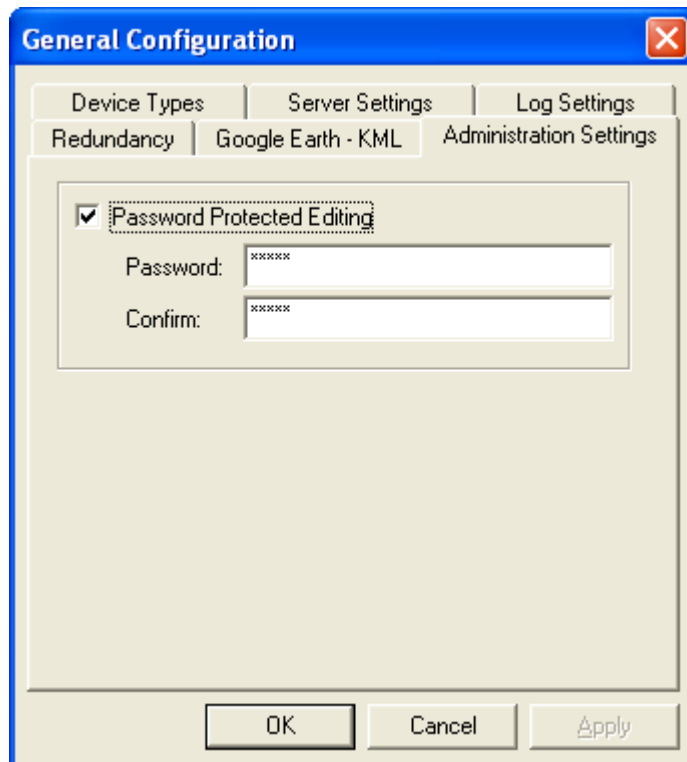
Also, **all** units in an SOS / Emergency alert state will be assigned the Emergency style that is set in the window illustrated above.

Please refer to Google Earth documentation for help in setting up the actual Network Link in that software.




Note: Use of Google Earth for mobile GPS tracking in a commercial application is likely to require a Google Earth Pro subscription.


Administration Settings

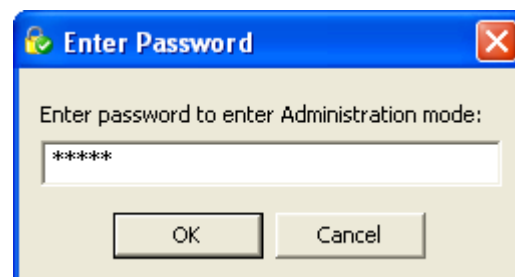
The Administration tab allows a user to set a password to lock down RevAdmin so that general editing cannot take place.




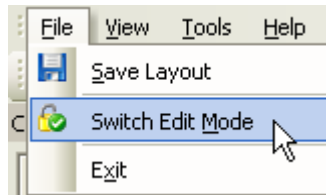
When the Password Protected Editing option is ticked and an appropriate Password and Confirmation entry have been set, RevAdmin will switch to a Locked down mode.

This will result in the  button being enabled on the toolbar and the status bar changing from  to .

If you need to perform editing after RevAdmin has been locked, click the  toolbar button and you will be asked to enter in the Administration password.



Once a correct password has been entered, RevAdmin will revert to Administration mode until the  button is pressed again to switch back to Locked mode. This function is also available from the File menu:



Event Configuration

The Event Configuration window can be accessed from the **Event Configuration...** item on the **Tools** menu.

General

The **General** section contains several options for monitoring high level event types. Each item is discussed further below.

Event Configuration

General

Event

Event Monitoring ☒

Proximity

Check Proximity ☐

Exclude Yards ☒

Proximity Colour LightOrange

Proximity Distance 50

Speeding

Check Speed ☒

Send Speed Alerts ☐

Speeding Colour WebMediumSeaGreen

Stationary

Check Stationary ☒

Stationary Colour WebYellow

Stationary Distance 50

Stationary Time 3

Event
Event types and configuration parameters

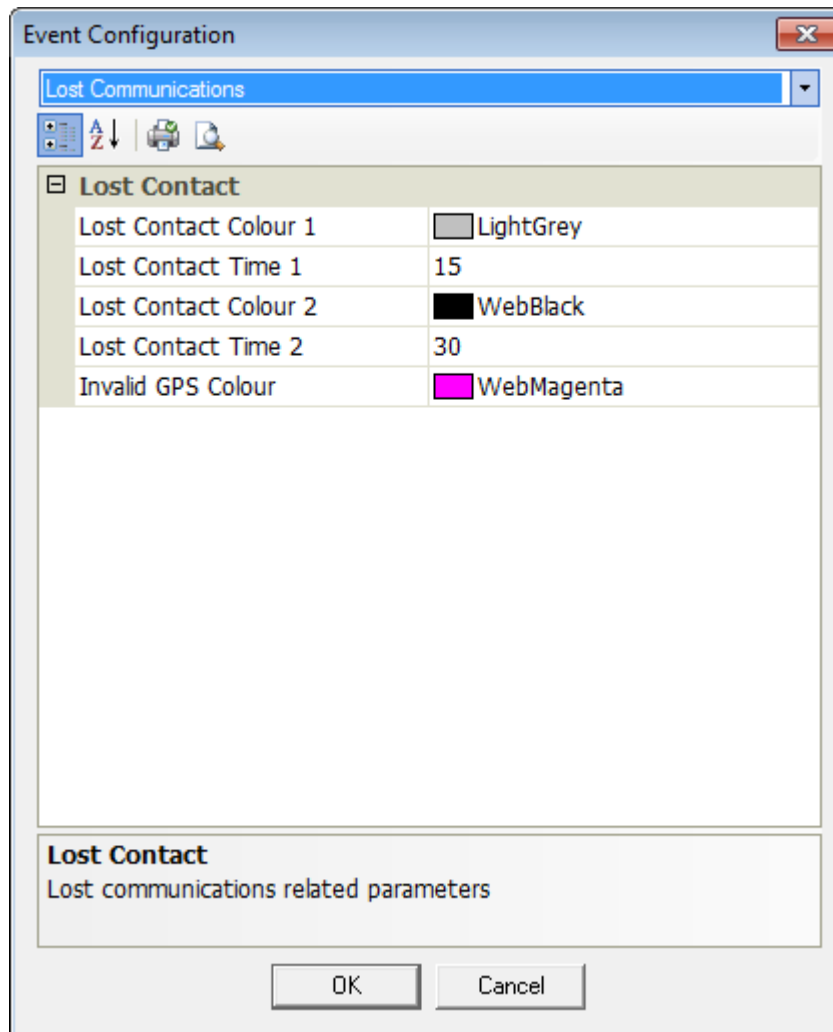
OK Cancel

Event Monitoring	Indicates whether or not general event checking will be performed for each incoming position.
Proximity	<p>If Check Proximity is ticked then whenever remote units come within the specified Proximity Distance of each other a general proximity alert will be raised.</p> <p>The option to Exclude Yards is useful for reducing unnecessary events from being raised when units are congregating back at base for example.</p>
Speeding	<p>If Check Speed is ticked then each position from a remote unit with a speed attached will be checked against the setting for the unit itself to see whether or not the unit is exceeding that general preset value.</p> <p>If Send Speed Alerts is ticked then a warning message will be sent to the remote unit if the hardware supports it.</p>
Stationary	If Check Stationary is ticked then a stoppage alert (of sorts) will be generated if positions from a remote unit all fall within the specified Stationary Distance radius (set in metres) for longer than the Stationary Time (period in minutes).

Any events detected for a vehicle (that itself has Event detection enabled) will result in the vehicle being coloured with the specified **Event Colour** in the RevViewer display.

Lost Communications

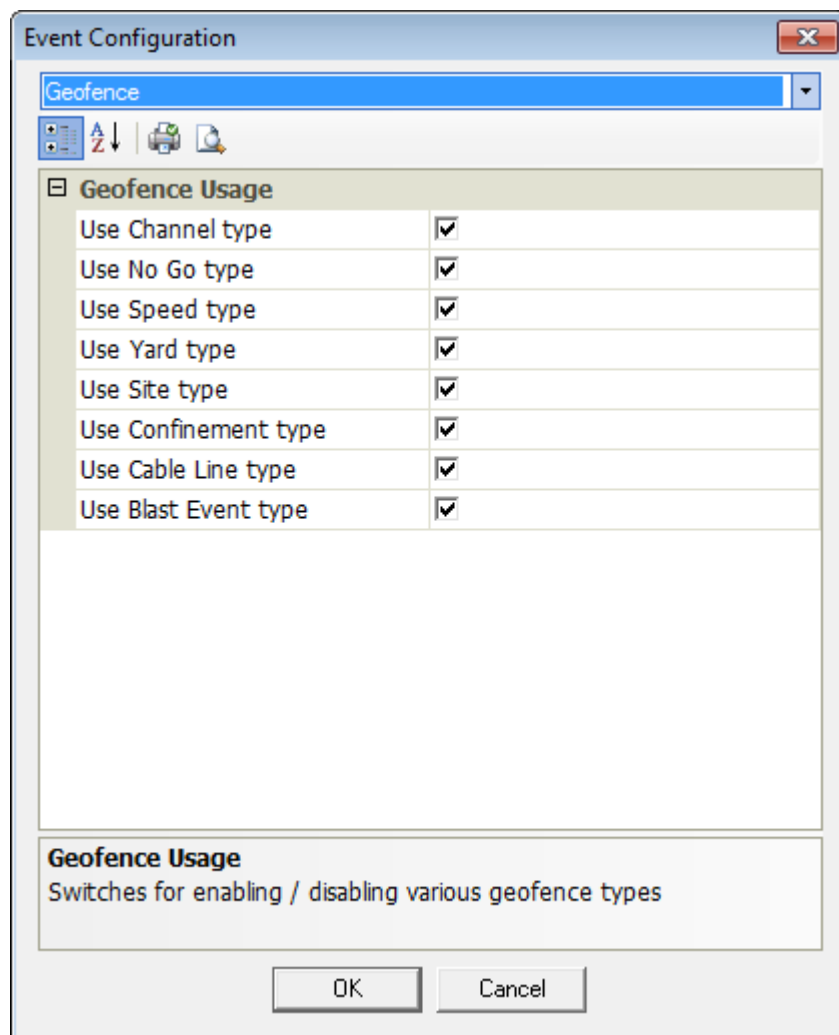
The **Lost Communication** section provides a two stage mechanism for keeping track of which remote units may no longer be operational.



Lost Contact 1	This is the first tier lost contact interval to indicate that a remote unit has not responded with a valid GPS position within a number of minutes as specified in the Lost Contact Time 1 field.
Lost Contact 2	If a valid response has still not been received from a remote unit within Lost Contact Time 2 time frame then it is considered "lost". This status can be used in conjunction with a setting in RevViewer to ensure mobiles that are not active are not cluttering up the map display.
Invalid GPS	The Invalid GPS condition is available for some types of hardware to indicate either an invalid or poor GPS quality signal has been received.

Geofence

The **Geofence** section provides a high level controlling mechanism to let RevAdmin know whether or not a particular class of geofence is going to be used.



Geofence Types

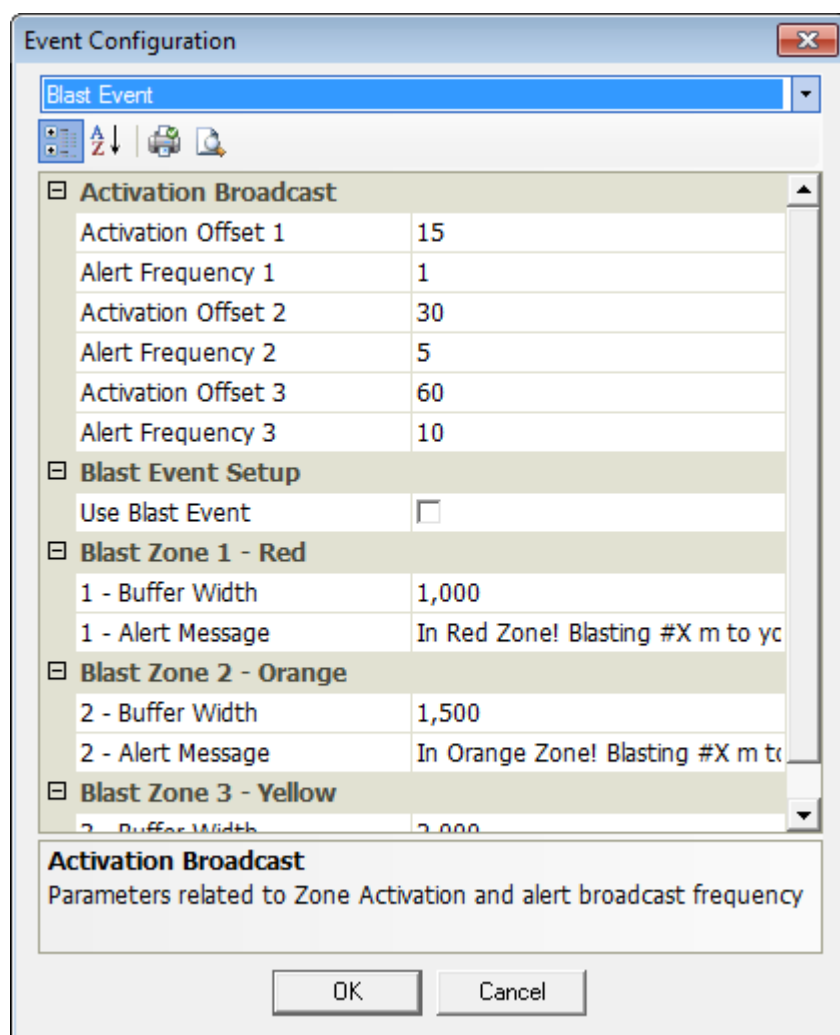
Channel	General coverage for a particular radio channel. The intention being to broadcast this geofence to intelligent tracking devices so that radio channel can be changed automatically upon entering the appropriate area.
No Go	Remote units entering a No-Go zone will trigger an Exception event in both RevAdmin and RevViewer.
Speed Limited	Remote Units exceeding the designated limit for this zone will trigger and Exception event in both RevAdmin and RevViewer.
Yard	Designed for future use in flagging events when vehicles enter a designated Yard
Site	Designed for future use in flagging events when vehicles enter a designated Site

Confinement	Designed to restrict movement of remote units within particular confines.
Cable Line	Prototype implementation for OH & S use in cable line logging applications.
Blast Event	Designed for use in mining applications where buffers around a specific core blast area get progressively activated to aid in warning any remote units that may be in or near the area around the time of the scheduled blast.

Blast Event

The **Blast Event** section controls the settings behind RevAdmin's Blast Event geofence type.

(Not ready for release as yet)



The screenshot shows a Windows-style dialog box titled "Event Configuration". At the top, there is a dropdown menu set to "Blast Event". Below this is a toolbar with icons for help, undo, redo, and save. The main area contains several expandable sections:

- Activation Broadcast**: Contains a table with settings for three activation levels.

Activation Offset 1	15
Alert Frequency 1	1
Activation Offset 2	30
Alert Frequency 2	5
Activation Offset 3	60
Alert Frequency 3	10
- Blast Event Setup**: Contains a checkbox for "Use Blast Event" which is currently unchecked.
- Blast Zone 1 - Red**: Contains settings for the first zone.

1 - Buffer Width	1,000
1 - Alert Message	In Red Zone! Blasting #X m to yo
- Blast Zone 2 - Orange**: Contains settings for the second zone.

2 - Buffer Width	1,500
2 - Alert Message	In Orange Zone! Blasting #X m to
- Blast Zone 3 - Yellow**: Contains settings for the third zone.

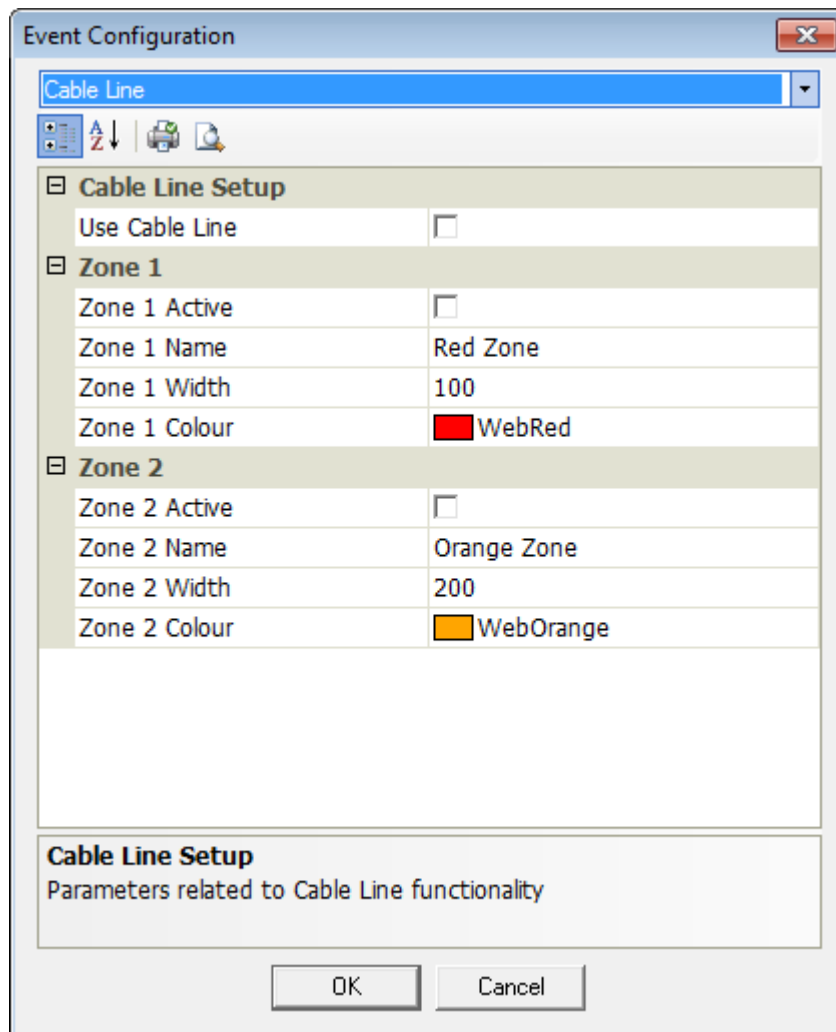
3 - Buffer Width	2,000
------------------	-------

At the bottom of the dialog, there is a summary section titled "Activation Broadcast" with the text "Parameters related to Zone Activation and alert broadcast frequency". Below this are "OK" and "Cancel" buttons.

Cable Line

The **Cable Line** section controls the settings for RevAdmin's Cable Line geofence type.

(Not ready for release as yet)



The image shows a software dialog box titled "Event Configuration". At the top, there is a dropdown menu currently set to "Cable Line". Below this is a toolbar with icons for undo, redo, and other functions. The main area of the dialog is divided into sections by expandable/collapsible headers. The first section is "Cable Line Setup", which contains a checkbox for "Use Cable Line" that is currently unchecked. Below this is a section for "Zone 1", which is expanded. It contains four rows: "Zone 1 Active" (unchecked checkbox), "Zone 1 Name" (text field with "Red Zone"), "Zone 1 Width" (text field with "100"), and "Zone 1 Colour" (color picker showing a red square and the text "WebRed"). Below "Zone 1" is a section for "Zone 2", which is also expanded. It contains four rows: "Zone 2 Active" (unchecked checkbox), "Zone 2 Name" (text field with "Orange Zone"), "Zone 2 Width" (text field with "200"), and "Zone 2 Colour" (color picker showing an orange square and the text "WebOrange"). At the bottom of the dialog, there is a section titled "Cable Line Setup" with the subtitle "Parameters related to Cable Line functionality". At the very bottom are two buttons: "OK" and "Cancel".

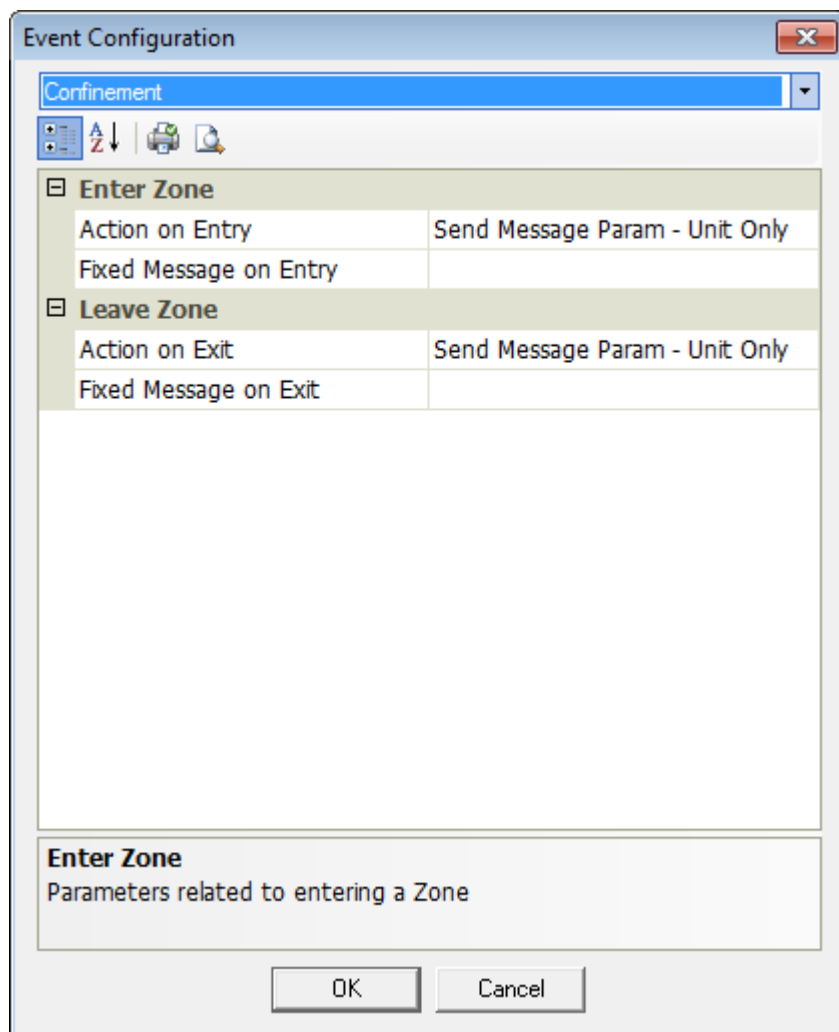
Cable Line Setup	
Use Cable Line	<input type="checkbox"/>
Zone 1	
Zone 1 Active	<input type="checkbox"/>
Zone 1 Name	Red Zone
Zone 1 Width	100
Zone 1 Colour	 WebRed
Zone 2	
Zone 2 Active	<input type="checkbox"/>
Zone 2 Name	Orange Zone
Zone 2 Width	200
Zone 2 Colour	 WebOrange

Cable Line Setup
Parameters related to Cable Line functionality

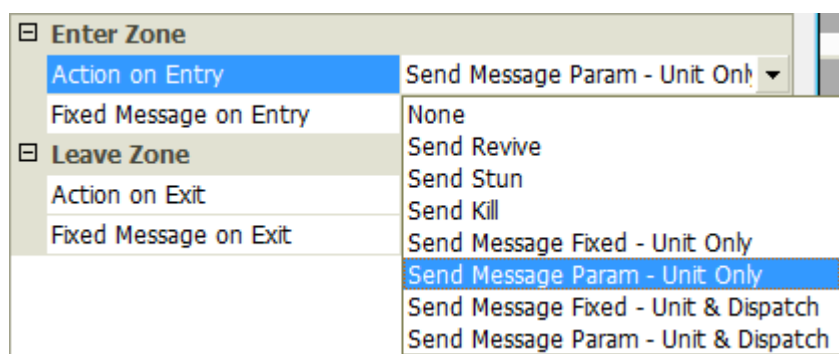
OK Cancel

Confinement

The **Confinement** section controls what action should be taken when a remote unit moves into or more importantly, out of, a confinement zone.



The possible list of actions are illustrated below with some options not available on all platforms.



The **Send Message Param** option uses the text specified by the user when setting up the geofence itself in RevViewer. While the **Unit and Dispatch** option picks up the Dispatch unit's ID from the geofence as well.

No Go

The **No Go** section controls what action should be taken when a remote unit moves into or out of a No Go zone.

Event Configuration

No Go

Buffering

Use Buffering

Buffer Width

Command on Entry

Command on Exit

☒

15

\$PSCOCM,300.1

\$PSCOCM,300

Inside Zone

Action Inside

Fixed Message Inside

Send Message Param - Unit Only

Leave Zone

Action on Exit

Fixed Message on Exit

Send Message Param - Unit Only

Buffering

Control zone buffering

OK

Cancel

There are currently two available actions when a unit either enters / remains inside a geofence as well as when it leaves the confines of the area.

Inside Zone

Action Inside

Fixed Message Inside

Send Message Param - Unit Only

None

Leave Zone

Action on Exit

Send Message Fixed - Unit Only

Send Message Param - Unit Only

Inside Zone

Send Message Fixed - Unit Only

Send the relevant unit a fixed message whenever it enters or remains within a No Go zone. The message will remain the same no matter which No Go zone the unit is in.

Send Message Param - Unit Only

Send the relevant unit a message that is based on the parameters set against the individual No Go zone at the time it is set up.

Leave Zone

These parameters are exactly the same as above with the exception they are sent once upon the first position from a remote unit that is no longer within the No Go zone.

Buffering

If the **Use Buffering** option is ticked, then a separate buffer area of size **Buffer Width** metres is placed around the extents of the core No Go zone. This buffer can then be used to do something special to assist in monitoring the remote unit. In the screenshot above when a unit first enters the buffer zone it is sent a command to effectively increase the polling rate so the unit can be monitored more closely for deviations into the No Go zone. Once the unit leaves the buffer area it will be sent another message to effectively restore a previous position reporting rate. It should be pointed out that there is a degree of hysteresis in the buffering algorithm such that once a unit enters the core No Go zone then it will continue to receive messages (if configured) until it not only leaves the core area but the buffer region as well.

Job Configuration

The **Job Configuration** window can be accessed from the **Job Configuration...** item on the **Tools** menu.

Fields

The **Fields Tab** is used to control the settings for how many fields will be used for job dispatch and what those fields represent.

Job Configuration

Fields | Display | General

Number of Fields: 4

Field Aliases	
Field Number	Alias (eg Client)
Field 1	Client
Field 2	Address 1
Field 3	Suburb
Field 4	Description

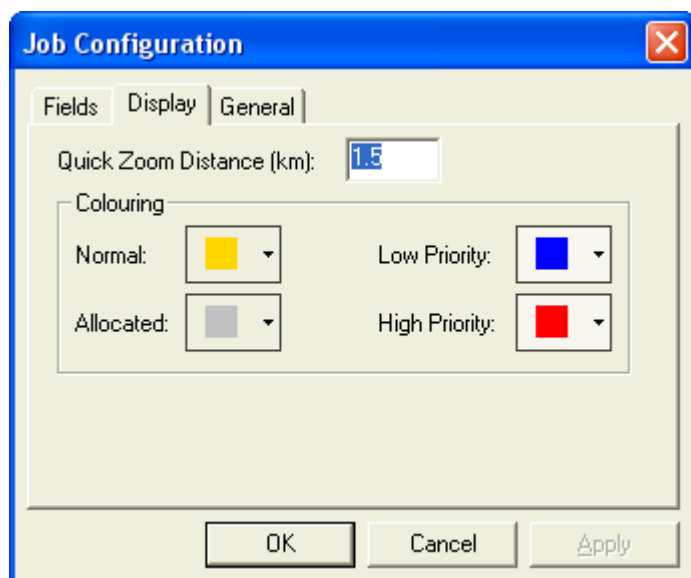
Field Number to use for Locality placement: 3

OK Cancel Apply

Number of Fields	Controls the number of customisable fields to be used for job dispatch (maximum of 8).
Field Aliases	Controls how the names of the various fields will be displayed in the RevViewer application. These names do not appear in any messages that are sent out.
Locality Field	Enter in the number of the Field Alias column that contains the Locality. This field will be used to automatically place jobs at the geographic centre of the given locality (if found). If this feature is being used then the given field should ONLY contain the locality name.
Allocated Status	Enter in the number of the Status message that the mobile units will send back to the base to confirm the job has been received and read.

Display

The **Display Tab** allows configuration of common display settings for all RevViewer clients.



Quick Zoom	This value (in km) controls how far to zoom in on the map when using the Zoom To Job function in RevViewer.
Colouring	Four colour options are available for distinguishing between job priority and status. It is possible to set all to the same colour if you want.

General

The **General Tab** controls settings relating to how short data and status messages relate to job dispatch functionality.

Job Configuration

Fields | Display | **General**

Status Message Number (Job Confirmed):

Status Message Number (Ready for Job):

☐ Use EDMs for Job Dispatch if available

OK Cancel Apply

Status Message Job Confirmed	Enter in the number of the Status message that the mobile units will send back to the base to confirm a job has been received and read.
Status Message Ready for Job	Enter in the number of the Status message that the mobile units will send back to the base to indicate they are ready to receive their next job.
Use EDMs	Place a check in this box if the mobile devices support the receipt and display of Extended Data Messages.

Status Configuration

The Status Configuration window allows statuses that may be mapped in the radio to be mapped in RevAdmin. It also provides an option to send out SMS messages or emails when a particular status arrives at the base.

Status Configuration

Status	Message	Send ACK	Status for ACK	Send SMS	Send Email	Broadcast	Broadcast Group	Notification Text
1	#1-Leaving Base	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2	#2-Arrived at Site	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3	#3-Job Completed	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4	#4-Job Incompl...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5	#5-Job Already ...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6	#6-Leaving for J...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7	#7-Leaving for ...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8	#8-Arrived at Ba...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9	#9-Found casu...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10	#10-Job Cancell...	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	IDAS	Testing broadcast
19	IGN OFF	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Notification text may contain special Tags that will be replaced with appropriate values dynamically. Available Tags are listed below:

#VEH_NAME#	Vehicle Name	Example Notification Text	equates to
#VEH_CLASS#	Vehicle Class	#VEH_NAME# is caught in traffic	Bob is caught in traffic
#VEH_PLATE#	License Plate	#VEH_NAME# arrived on site at: #TIME12#	Bob arrived on site at: 3:52 PM
#TIME12#	Current time (12 hr)	#VEH_NAME# expected at: #TIME24+10#	Bob expected at: 16:04
#TIME24#	Current time (24 hr)		
#TIME12+nn#	Current time + nn mins (12 hr)		
#TIME24+nn#	Current time + nn mins (24 hr)		

where Current time is the time the Status was processed by RevAdmin

Done

Status	The actual status number programmed into the radio.
Message	The message that will be displayed in the Event Viewer \ RevViewer Vehicle Summary when the status is received.
Send ACK	If ticked, RevAdmin will automatically send an appropriate status (see below) back to the originating mobile to confirm the status was received.
Status for ACK	Number of the status message to send back to a mobile to Acknowledge a previous status.
Send SMS	If ticked, an SMS will be sent to appropriate contacts when the corresponding status is received. The actual message is defined by the Notification Text field.
Send Email	If ticked, an email will be sent to appropriate contacts when the corresponding status is received. The actual message is defined by the Notification Text field.
Broadcast	If ticked, a message will be broadcast to the specified Broadcast Group (see below) to notify the units in the group that a particular status has been received.
Broadcast Group	Name of the Fleet Group to broadcast the set message too (see above).
Notification Text	Content that will be sent via SMS / Email as appropriate, explained further below.

Notification Text Tags

The Notification text can contain a number of optional "tag" fields that are substituted dynamically based on the mobile unit that sent the status message. Currently available fields are:

#VEH_NAME#	The name associated with the vehicle in the Vehicle Edit window (the one that appears in the Vehicle Summary panel).
#VEH_CLASS#	The class of the vehicle as selected in the Vehicle Edit window.
#VEH_PLATE#	The license plate as defined in the Vehicle Edit window.
#TIME12#	The current time when RevAdmin received the status (in 12 hour format).
#TIME24#	The current time when RevAdmin received the status (in 24 hour format).
#TIME12+nn#	Outputs a time equal to the time when RevAdmin received the status plus a specified number of minutes (in 12 hour format). The nn should be replaced with a number between 1 and 60.
#TIME24+nn#	Outputs a time equal to the time when RevAdmin received the status plus a specified number of minutes (in 24 hour format). The nn should be replaced with a number between 1 and 60.

External File Configuration

If desired, Location names can be displayed within the RevAdmin Vehicle Summary window. In order to do this please ensure that the following requirements are met:

1. The **UsingLocality** entry in the registry under **HKEY_LOCAL_MACHINE\SOFTWARE\Boyce Industries\RevAdmin\Configuration** must be set to 1.
2. A file called **StreetSetup.txt** must be in the main RevAdmin folder. The format of this file is explained below.

The Street Setup file is broken into three main sections: Fields, Files and State Details.

```
[FIELDS]
PrimaryLocalityName=Suburb
PrimaryLocalityState=State
CountryTableState=STATE
LocalityTableLocality=LOCALITY_NAME
RoadTableStreet=STREET_NAME
RoadTableLocality=LOCALITY
MapReference=FullMapRef
[FILES]
PrimaryLocalityTable=C:\Program Files\Boyce Industries\RevAdmin\MapData\AusLocalities.shp
GridTable=C:\Program Files\Boyce Industries\RevAdmin\MapData\tblGrid-WGS84_rectangle.shp
CountryTable=C:\Program Files\Boyce Industries\RevAdmin\MapData\AustBounds_Region.shp
NumStateFiles=2
State1=NSW
State2=QLD
[State: NSW]
RoadTable=C:\Program Files\Boyce Industries\RevAdmin\MapData\NSW\NSW_ROAD.shp
LocalityTable=C:\Program Files\Boyce Industries\RevAdmin\MapData\NSW\NSW_LOCALITY.shp
[State: QLD]
RoadTable=C:\Program Files\Boyce Industries\RevAdmin\MapData\QLD\QLD_ROAD.shp
LocalityTable=C:\Program Files\Boyce Industries\RevAdmin\MapData\QLD\QLD_LOCALITY.shp
```

Fields Section

This area contains seven entries corresponding to the field names that will be looked up in the various mapping layers.

PrimaryLocalityName	Field in the PrimaryLocality Table (if present) that contains the name of the Locality.
PrimaryLocalityState	Field in the PrimaryLocality Table (if present) that contains the name / abbreviation of the state.
CountryTableState	Field in the Country Table that contains the name / abbreviation for the state.
LocalityTableLocality	Field in the Locality Table(s) that contains the name of the locality.
RoadTableStreet	Field in the Road Table(s) that contains the name of the street.
RoadTableLocality	Field in the Road Table(s) that contains the name of the locality.

MapReference	Field in the Grid file containing the grid reference identifier that is used for cross reference with the grid cell's centroid stored in the RevServer database
---------------------	---

Files Section

PrimaryLocalityTable	Location of the layer containing the state / region boundaries used for determining an appropriate locality. Use this entry if all available localities are in one file.
CountryTable	Location of the layer containing the state / region boundaries used for determining an appropriate locality layer to lookup.
GridTable	Layer containing grid reference objects
NumStateFiles	Number of separate state files to be loaded for street / locality searching
StateX	Contains the value corresponding to the field that is returned for a state from the Country layer (as used in the State section below).

State Section(s)

For each state that vehicles are going to be operating in, a separate section needs to be set up with section headings as follows:

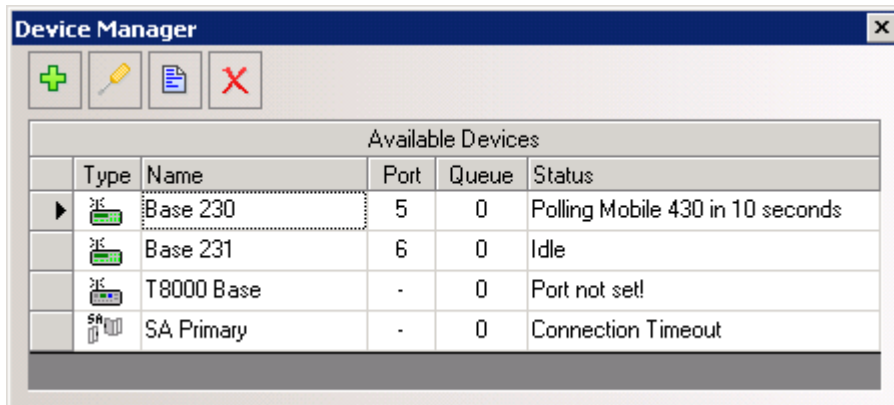
[State: *State Name*]

where *State Name* corresponds to the entry in the Country table. Each section then needs to have two entries: **RoadTable** and **LocalityTable** which specify the location of the Road and Locality layers respectively.


Device Manager

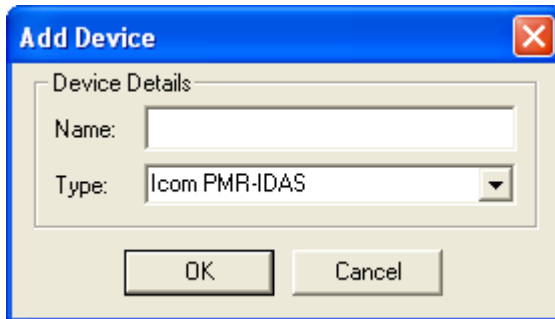
Device Manager Overview

The Device Manager is used to configure the base radio(s) / devices that are going to be used for communicating with the various remote units.



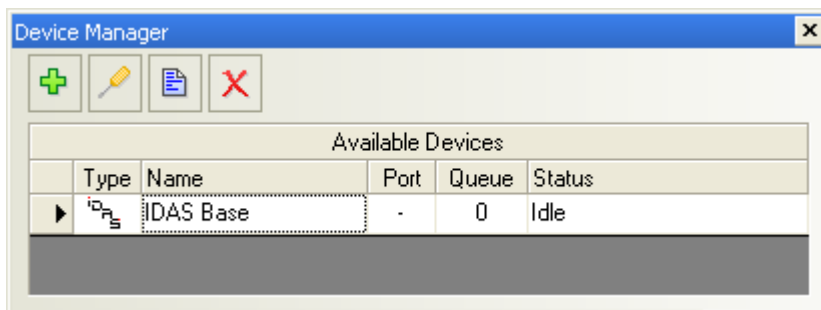
Adding A Device

1. Click on the Device Manager's  **Add** button




The 'Add Device' dialog box has a blue title bar with a close button. It contains a 'Device Details' section with a 'Name' text field and a 'Type' dropdown menu. The 'Type' dropdown is currently set to 'Icom PMR-IDAS'. At the bottom are 'OK' and 'Cancel' buttons.

2. Type in a short **Name** to describe the base radio that you are setting up eg IDAS Base.
3. Select the **Type** of base device.
4. Click on **OK**.



The 'Device Manager' window shows a toolbar with icons for adding, editing, deleting, and refreshing. Below is a table titled 'Available Devices'.

Type	Name	Port	Queue	Status
	IDAS Base	-	0	Idle

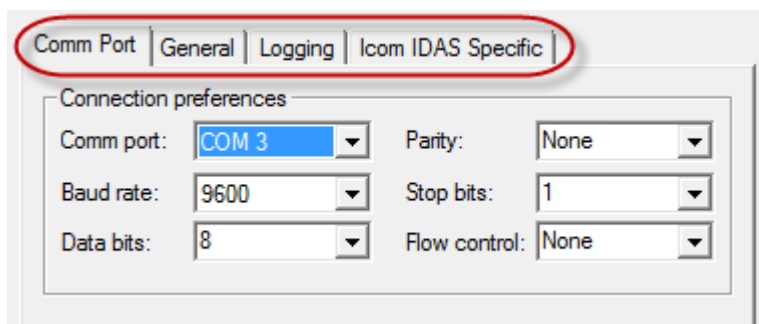
You should now see a new line added to the list of Available Devices. Please refer to the next section for details on how to configure the new device.

Configuring A Device

Highlight the device in the **Available Devices** list that you wish to configure and then click on the **Properties** button.



In the Settings window you can see a number of Tabs (boxed in red below) that allow different options to be configured. All devices have several Tabs in common ie. Comm Port (or Socket Setup), Logging and Polling. Generally, each type of base device will also have its own Tab for device specific settings.

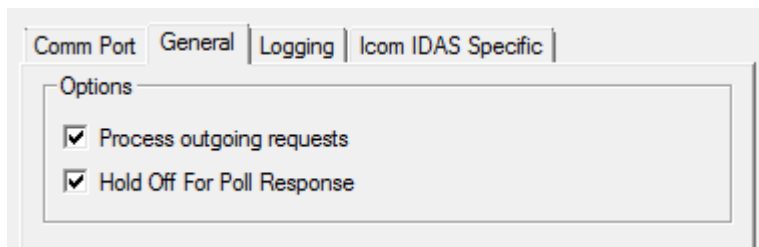


Comm Port Tab

In order for Reveloc to communicate with the attached device it needs to be able to connect via an appropriately configured communications port.

1. Select the appropriate **Comm port** from the list.
2. By default the Baud rate should be automatically set based on the selected device type. You "should" never need to change it or any of the other Connection Preference settings.

General Tab

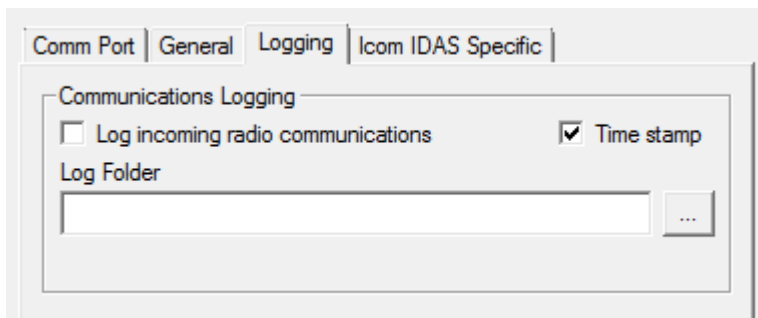


Two options are currently available in the General tab for most base devices.

The first **Process outgoing requests** is used to control whether or not the particular base device should be used for sending things like poll requests out to remote units.

The second, **Hold Off For Poll Response** is often useful with shared voice / data solutions where it may be beneficial to hold off polling for a matter of seconds in case a voice conversation is still in progress.

Logging Tab



This section is designed more for debugging than anything else. By ticking the **Log incoming radio communications** checkbox and supplying a folder to create the logs into, any valid packets of information received from the attached device can be saved to a standard text file.

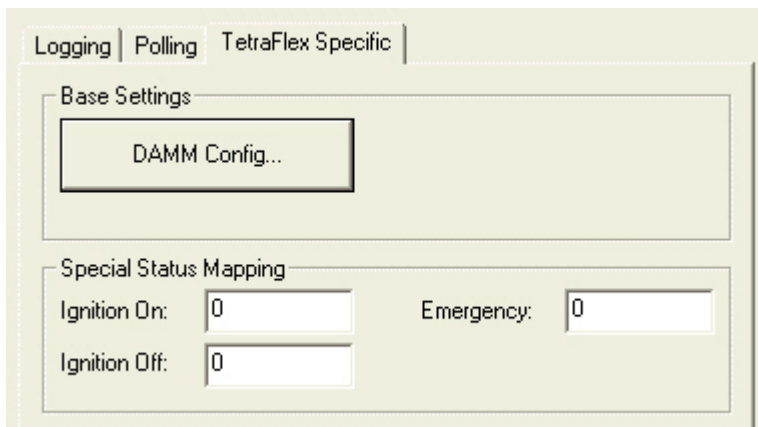
Text files are named as follows:

Comms Log yyyy-mm-dd.log

where "yyyy" is the current year, "mm" the current month and "dd" the current day of the month.

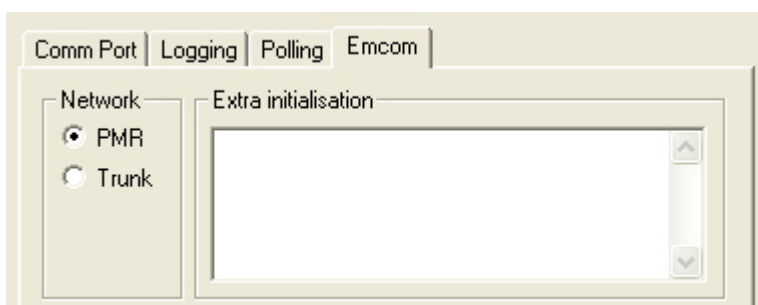
Device Specific Tabs

DAMM Tetraflex



The tab is broken up into two sections, the first contains a single button which brings up the DAMM Tetraflex configuration window where IP and other gateway related settings can be entered. The second setting allows for three Statuses to be mapped that will allow RevAdmin to handle them specially ie. Ignition On / Off and Emergency alerts.

Emcom URM



The Emcom URM tab simply has two controls which allow the type of **Network** to be set and any **Extra Initialisation** strings that should be sent to the radio modem.

Icom IDAS

The Icom IDAS configuration window is divided into four sections:

- Fleet Settings:** Contains text boxes for 'Common Id' (set to 1) and 'Base Id' (set to 1001).
- Command:** Contains radio buttons for 'Version 1' and 'Version 2' (Version 2 is selected).
- Special Status Mapping:** Contains text boxes for 'Ignition On' (23), 'Ignition Off' (19), 'Emergency' (100), and 'GPS Poll' (24).
- Miscellaneous:** Contains four checkboxes, all of which are checked: 'Request ACK for GPS Polls', 'Request ACK for Statuses', 'Only poll 'active' units (used when polling in Continuous mode)', and 'Only poll 'active' units (used when polling in Continuous mode)'.

The IDAS configuration tab is split into four sections.

The **Fleet Settings** section contains two fields where the **Common Id** and **Base Id** programmed into the base radio are displayed / set.

The **Command** section has an option for choosing the version of the IDAS command protocol to use.

The **Special Status Mapping** section allows **Ignition On**, **Ignition Off**, **Emergency** and **GPS Poll** request statuses to be mapped so that RevAdmin can use them internally for event monitoring and position requests.

Finally, the **Miscellaneous** section contains options for requesting acknowledgments when sending Polls and Statuses as well as an option that can be used in conjunction with automated polling. If this option is ticked, only units that have sent an Ignition On status or have sent a recent position, will be polled in the normal list. This is useful in fleets where frequent polling is required as units that are off will not create what is essentially a dead polling slot.

Please note that the Request ACK options should both be left ticked!

Under IDAS Version 1:

- The Common Id and Base Id values are determined directly from the radio and cannot be altered.
- The Emergency status value is used can be set.

Under IDAS Version 2:

- The Emergency status is not used as Emergency notification is handled differently.

Icom BIIS

The screenshot shows the 'Icom BIIS Specific' configuration tab. It includes a 'Fleet Settings' section with input fields for 'Common Id' (value: 1) and 'Base Id' (value: 1001). To the right is a 'Command' section with radio buttons for 'Version 1' and 'Version 2' (selected). Below these is a 'Special Status Mapping' section with input fields for 'Ignition On' (value: 23), 'Ignition Off' (value: 19), and 'Emergency' (value: 100).

The BIIS configuration tab is similar to IDAS Version 1 outlined above. The key difference being that GPS Poll request functionality is not supported.

Tait TMR (Trunk)

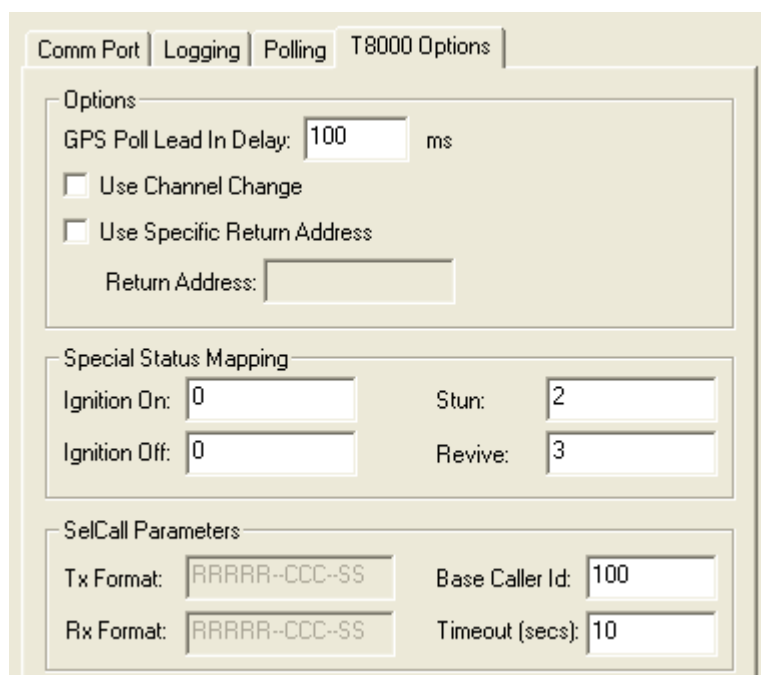
The screenshot shows the 'MAP27 Options' configuration tab. It includes a 'Fleet Settings' section with input fields for 'Dialing' (value: 3 digit), 'Prefix' (value: 284, with '(MPT1343)' next to it), and 'Fleet ID' (value: 802, with '(MPT1327)' next to it). To the right is a 'Polling Method' section with radio buttons for 'Control Channel' (selected) and 'NPD Call'. Below that is a 'Messages' section with a checkbox for 'Allow EDMs' which is currently unchecked.

The number of digits used for dialling along with the **Prefix** and **Fleet ID** will be automatically determined once the program has successfully queried the base radio configuration.

By default the Polling Method will be set to use a **NPD Call**. Access to Control Channel polling is governed by the type of registration code that was used when "unlocking" the program. If you have access to this option and have been given the okay by the network operator then by all means use it if it is more appropriate.

If the mobiles in the field support the display of Extended Data Messages then tick the **Allow EDMs** box if desired.

Tait PMR (Conventional)



Comm Port | Logging | Polling | T8000 Options

Options

GPS Poll Lead In Delay: 100 ms

☐ Use Channel Change

☐ Use Specific Return Address

Return Address:

Special Status Mapping

Ignition On: 0 Stun: 2

Ignition Off: 0 Revive: 3

SelCall Parameters

Tx Format: RRRRR-CCC-SS Base Caller Id: 100

Rx Format: RRRRR-CCC-SS Timeout (secs): 10

There are three configuration sections for T8000 series bases.

The first **Options** section contains essentially three options:

GPS Poll Lead In Delay, as it suggests, controls the lead in delay for GPS polls and is specified in milliseconds. This number should be no less than 60ms and can be varied upwards to several thousand milliseconds if necessary. You may need to experiment with this parameter for optimum results, particularly if one or more repeaters are in use as part of the radio network.

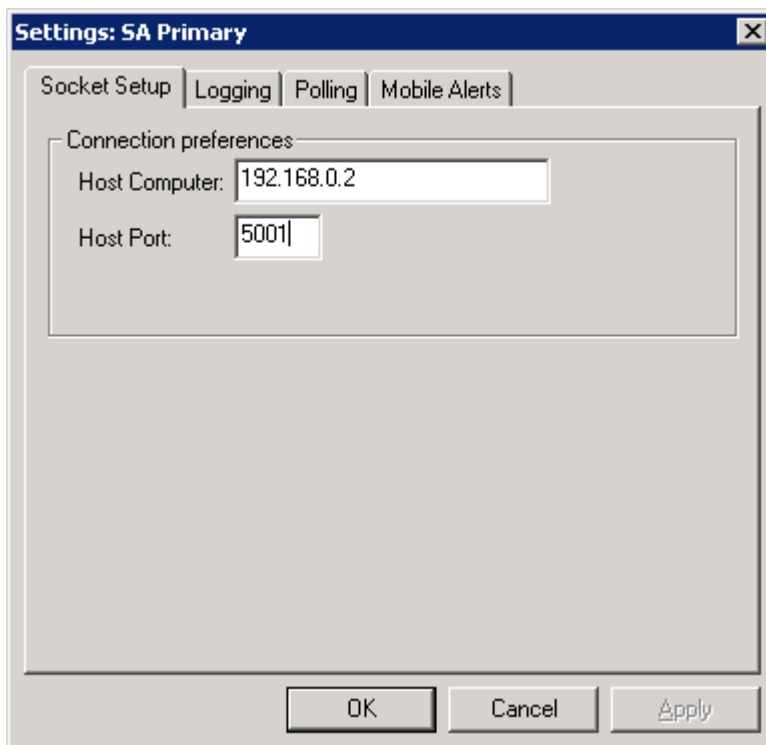
Use Channel Change informs the system that vehicle Mobile Ids may have channel information attached and to use this information when communicating with the remote unit. Channel information is attached to the end of a Mobile Id using a colon and then the channel eg 80010236:2

Use Specific Return Address and its complementary **Return Address** text field allow a particular base's Id to be entered so that all poll replies go to it instead of the initiating base device.

The **Special Status Mapping** section provides four edit fields for configuring specially designated Status items which are used in conjunction with Selcalls.

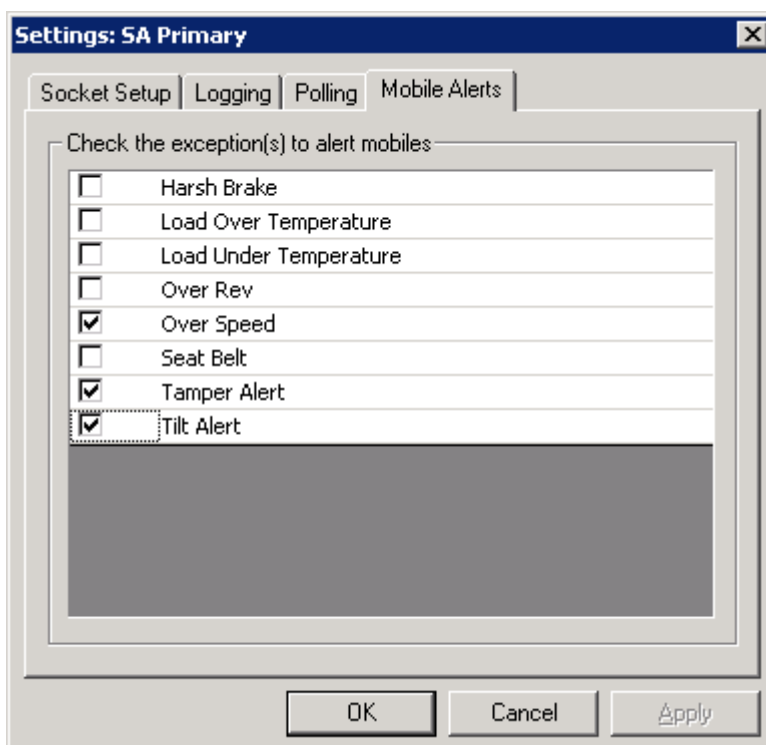
The **Selcall Parameters** section currently allows the Base's Caller Id to be set along with a Timeout after which unanswered Selcall's received by the base are considered to have been missed. The Selcall Tx & Rx format supported by RevAdmin is currently fixed as indicated above.

Status Automator Gateway Socket Setup Tab

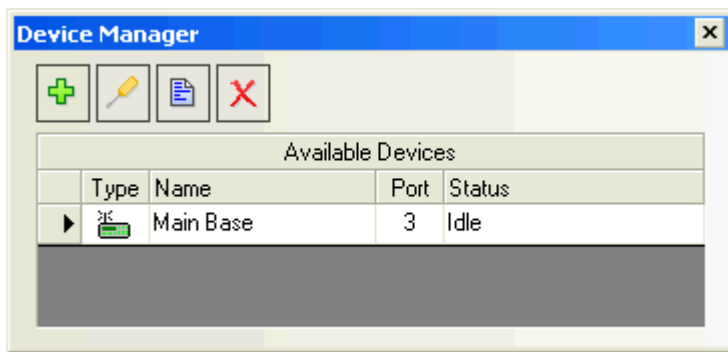



Enter in the name of the computer that is running the Status Automator Gateway software and the port it is listening for connections on.

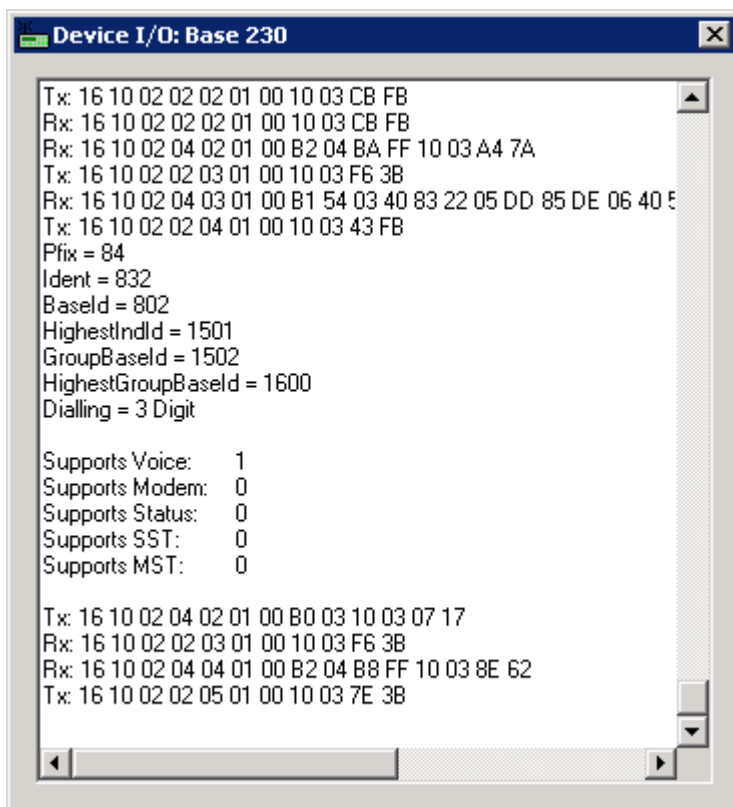
Click on the Mobile Alerts tab and check the type of events that will result in SMS notifications being broadcast to appropriate personnel.



Once you have set all of the various options you click on the OK button to update the Device's settings. An example is shown below indicating that the Device is set to operate on Port 3 and is currently idle.



An interpreted stream of input and output data for a device can be displayed by highlighting it in the list and clicking on the  Display button. A window similar to the one below will be displayed.




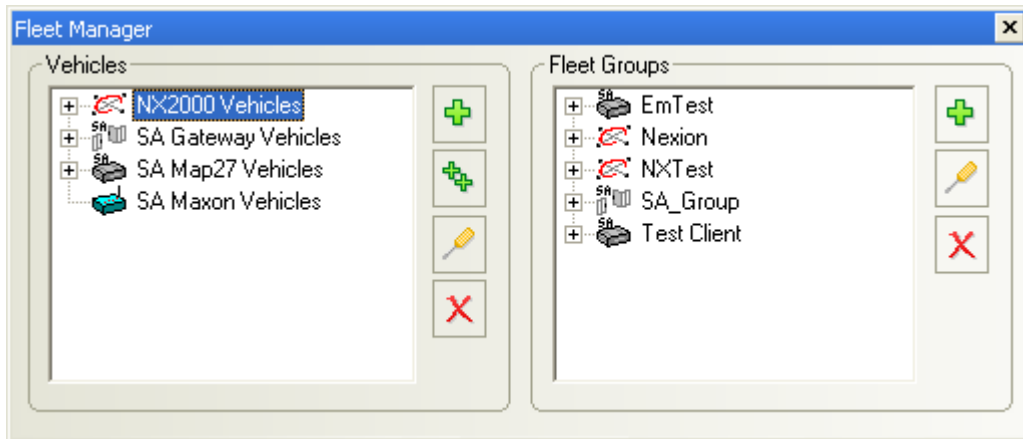
There is one window per device and each window includes the Device's name as part of its caption

Fleet Manager

Fleet Manager Overview

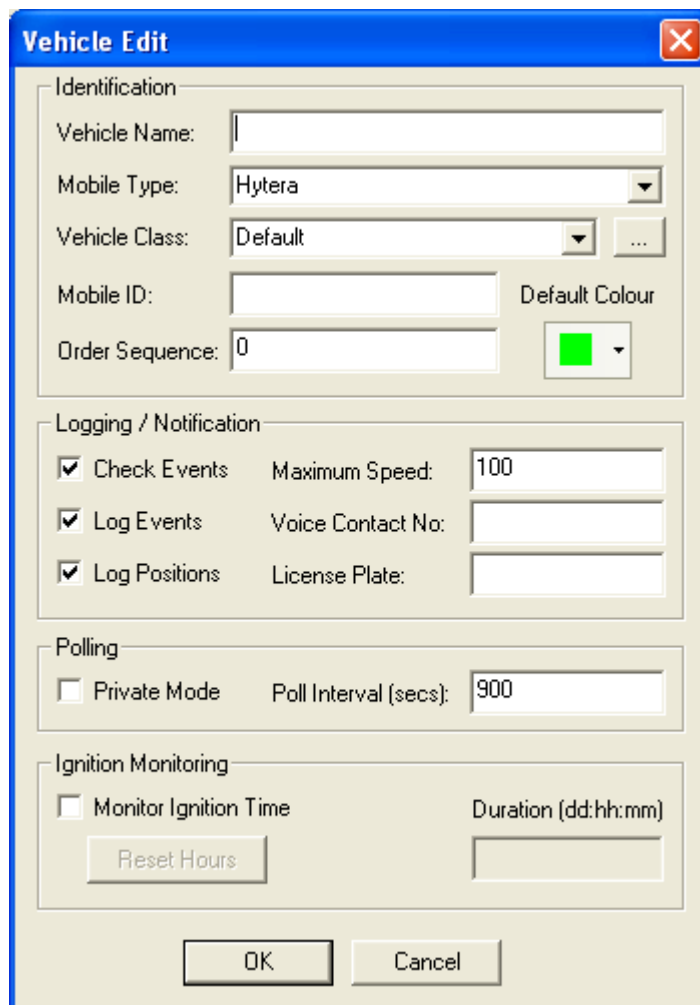
All devices that will be used in conjunction with Reveloc must be setup through the Fleet Manager interface. Details for each vehicle are stored in a Microsoft Access database.

The Fleet Manager can be accessed from either the  toolbar button or from the **Fleet Manager...** item on the **View** menu. An example of this dialog is shown below.



Adding A Vehicle

New devices can be set up by clicking the  **Add** button. This should result in a blank **Vehicle Edit** window appearing.



Vehicle Edit

Identification

Vehicle Name:

Mobile Type:

Vehicle Class: ...

Mobile ID: Default Colour

Order Sequence:

Logging / Notification

☒ Check Events Maximum Speed:

☒ Log Events Voice Contact No:

☒ Log Positions License Plate:

Polling

☐ Private Mode Poll Interval (secs):

Ignition Monitoring

☐ Monitor Ignition Time Duration (dd:hh:mm)

Vehicles are added by entering appropriate information and clicking on **OK**. Each field is explained below:

Identification

Vehicle Name	A user friendly description that will be used throughout the application to reference the vehicle.
Mobile Type	Select the appropriate type of communications this device uses from the drop down list.
Vehicle Class	The Vehicle Class field is designed for use in distinguishing between types of vehicles in upcoming reports.
Mobile Id.	The identification string for the mobile device.
Order Sequence	If required enter a number that will be used for ordering the vehicles in the Vehicle Summary. Vehicles are sorted first by their Order Sequence number and then alphabetically by Vehicle Name.

Default Colour	Default colour to use when displaying this vehicle's normal position. If event tracking is being used then these colours will be used instead of the default colour where appropriate.

Logging / Notification


Check Events	Tick this box if you want to check for events as defined in the Event Configuration section
Log Events	Tick this box if you want the Event Information logged to either the database or a file.
Log Positions	Tick this box if you want each position to be logged to either the database or a file.
Maximum Speed	If you wish to set a maximum speed for the vehicle you can do this here. Any speeds returned that are over this amount will trigger an event.
Voice Contact No	Optional mobile phone number in case emergency contact is required. This number and the License Plate number below are displayed in the RevViewer Emergency Alert window if an SOS is triggered for the vehicle.
License Plate	Optional License Plate identification.

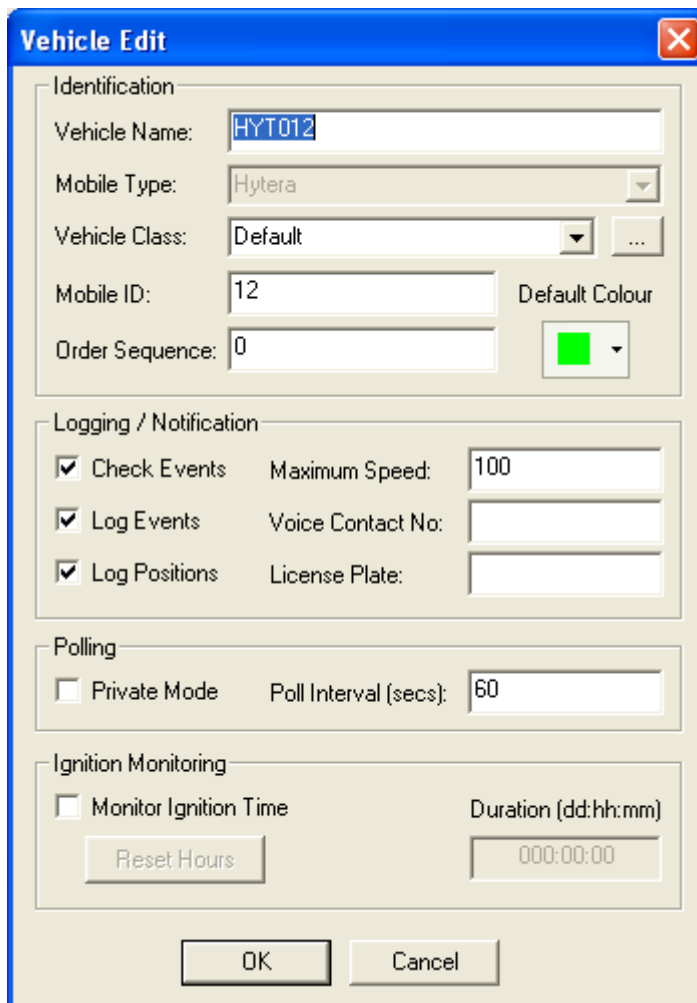
Polling

Private Mode	Tick this box if the vehicle should not be tracked. This setting can be useful for situations where an employee has been granted use of a vehicle for private purposes (eg. on a rostered day-off) and information on there whereabouts should not be obtained / retained.
Poll Interval	The maximum number of seconds that should ideally transpire between positions when the unit is active.

Editing A Vehicle's Details

The details associated with a vehicle can be modified as follows:

1. Find the device you wish to maintain in the Fleet Manager's **Vehicle** tree.
2. Either double click on it or single click on it to highlight it and then click the  **Edit** button.
You should see the **Vehicle Edit** window with the selected vehicle's details filled out.
3. Simply modify the appropriate settings and click on **OK**.



Vehicle Edit

Identification


Vehicle Name:

Mobile Type:

Vehicle Class:

Mobile ID:

Order Sequence:

Default Colour: 

Logging / Notification

☒ Check Events Maximum Speed:

☒ Log Events Voice Contact No:


☒ Log Positions License Plate:

Polling

☐ Private Mode Poll Interval (secs):

Ignition Monitoring


☐ Monitor Ignition Time Duration (dd:hh:mm)

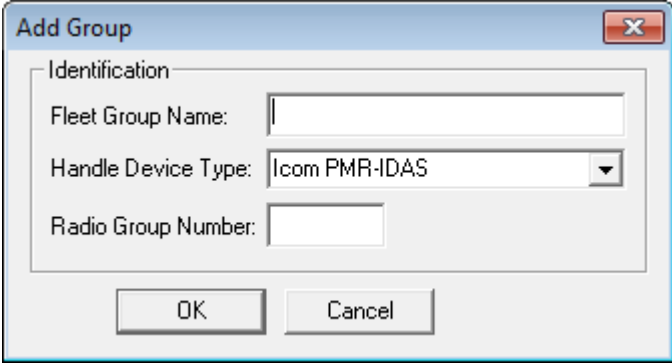
Note: If you no longer wish to use a vehicle then you can remove it from the system by highlighting it in the Vehicle tree and pressing the  **Delete** button.

Adding A Vehicle Fleet

Once you have entered the details for each vehicle you must then associate it with at least one vehicle fleet if you want to request positions for it or display it on a map.

Depending on how many vehicles are being tracked, it may be appropriate to have only one Fleet defined. A new fleet can be created as follows:

1. Click on the  **New** button in the **Fleet Groups** section.
You should see a window similar to the one below.




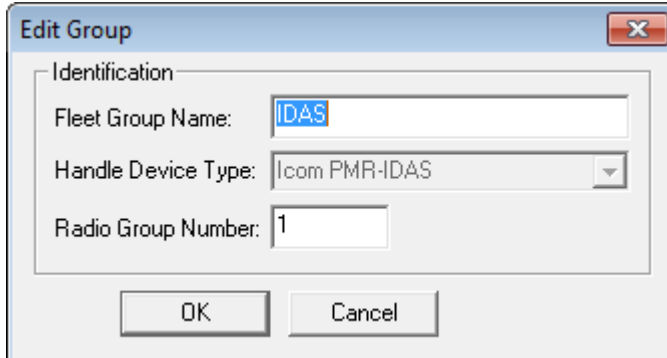
The screenshot shows a standard Windows-style dialog box titled "Add Group". Inside the dialog, there is a section labeled "Identification" which contains three input fields: "Fleet Group Name" (a text box), "Handle Device Type" (a dropdown menu currently showing "Icom PMR-IDAS"), and "Radio Group Number" (a text box). At the bottom of the dialog are two buttons: "OK" and "Cancel".

2. Type in an appropriate **Fleet Group Name** that summarises the type of vehicles that will be grouped eg. Sales.
3. Choose the appropriate communication method for vehicles in this group from the **Handle Device Type** dropdown list.
4. Enter in the **Radio Group Number** if applicable.
5. Click on **OK**.

Renaming A Vehicle Fleet

If you wish to rename an existing Vehicle Fleet, you can do so as follows:

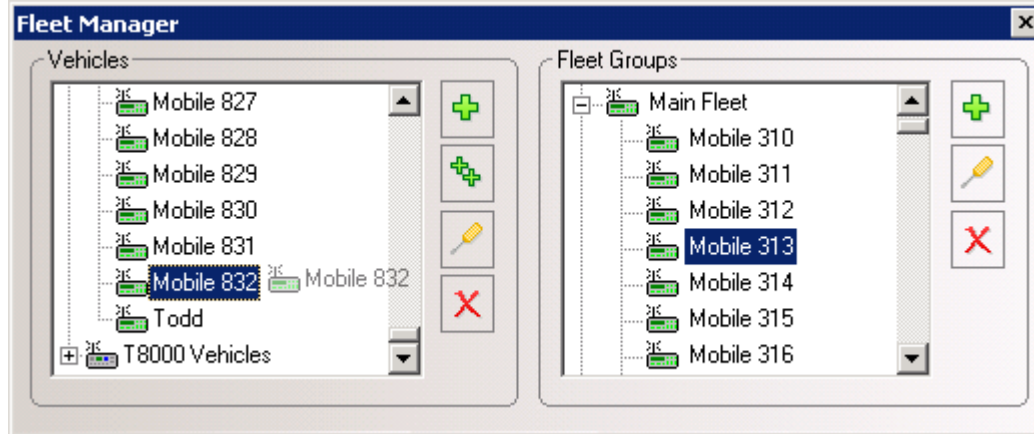
1. Find the Fleet you wish to rename in the Fleet Manager's **Fleet** tree.
2. Single click on it to highlight it and then click the  **Edit** button.
You should see the **Edit Group** window with the selected fleet's name already filled in.
3. Type over it with the new name and click on **OK** to save the change.



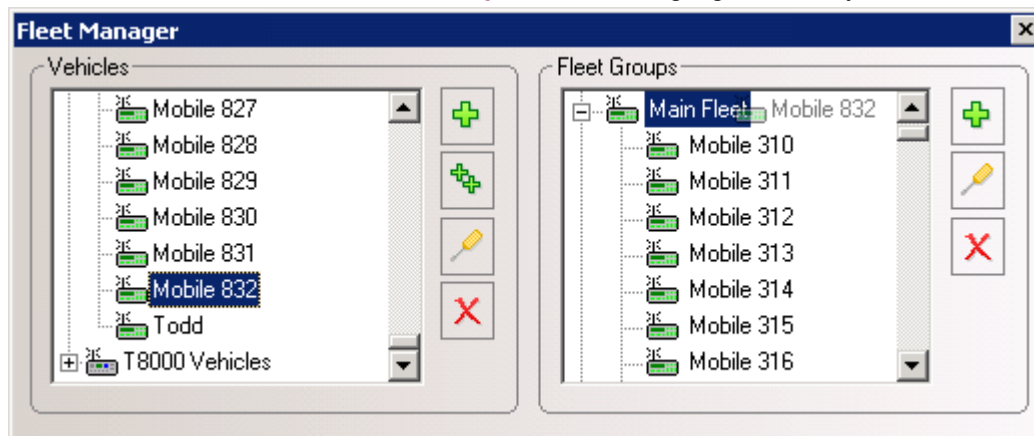
Adding A Vehicle To A Fleet

Vehicles can be associated with a Fleet as follows:

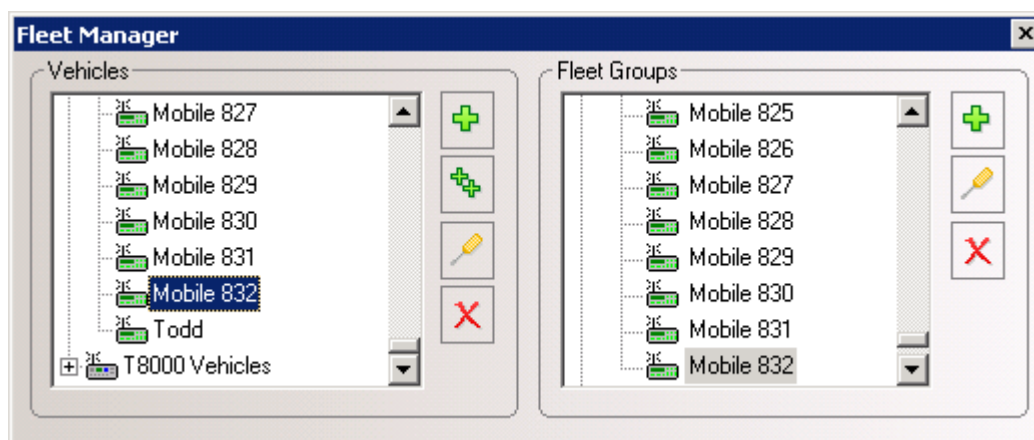
1. Left click on the vehicle(s) you wish to associate with a fleet and hold down the mouse button.
2. As you drag the vehicle across to the **Fleet Groups** tree the cursor will change shape.



3. When the vehicle is over the **Fleet Groups** tree, it will highlight the entry under the cursor.



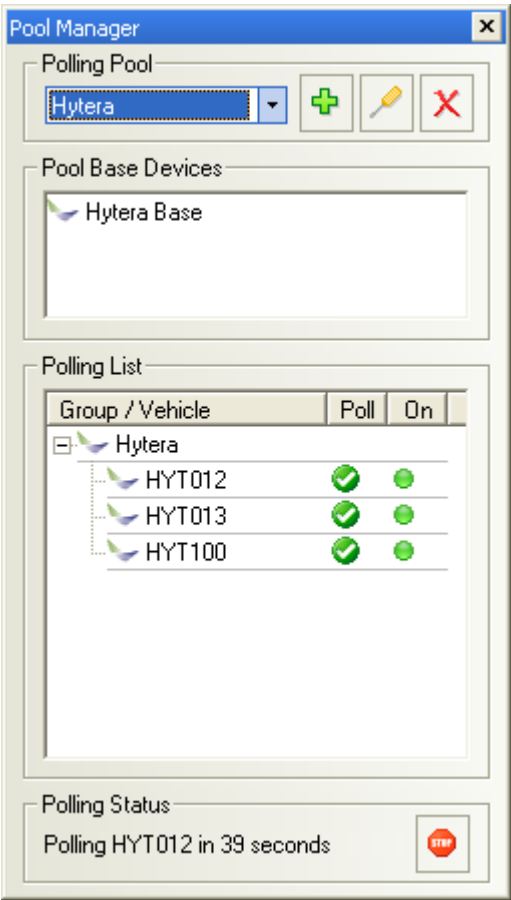
4. Once the appropriate Fleet Group is highlighted, release the mouse button to drop the vehicle onto that fleet.



Pool Manager

Pool Manager Overview

The Pool Manager can be accessed from either the  toolbar button or from the **Pool Manager...** item on the **View** menu. An example of this dialog is shown below.

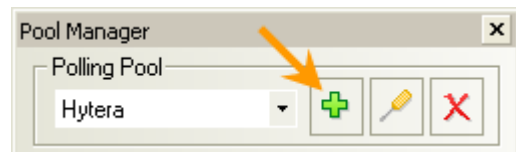


The Pool Manager interface is used to create or maintain one or more Polling Pools. Each Polling Pool can have one / more base devices associated with it along with one / more Fleet Groups.

Polling Vehicles

Adding A Polling Pool

The first step in adding a new Polling Pool is to click on the Add icon in the Pool Manager to bring up the Pool Edit window.



Simply enter in the name for the new pool in the **Pool Name** field.

Leave the **Schedule To Use** as **< New Schedule >** if you wish to create a new schedule for the pool or, if you have existing schedules, click on the drop down and select the appropriate one from the list.

If the **< New Schedule >** option is selected then the new schedule will have the same name as that entered in the Pool Name field.

Next, select the Operating Schedule type ie. **24/7** for round the clock polling or **Daily Hours** if you want to set up a time based window within which polling should take place.

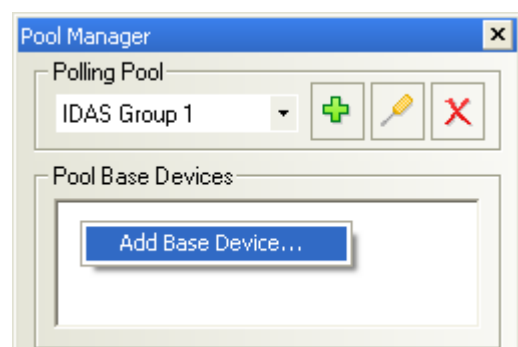
Finally, tick the **Poll 'Active' Units Only** box if you only want to attempt polling for units after they have indicated they are on ie. they have sent a power on (or other) status or have recently sent in a position response / unsolicited position.

Click on **OK** to add the new Pool to the system

Maintaining A Pool's Base Devices

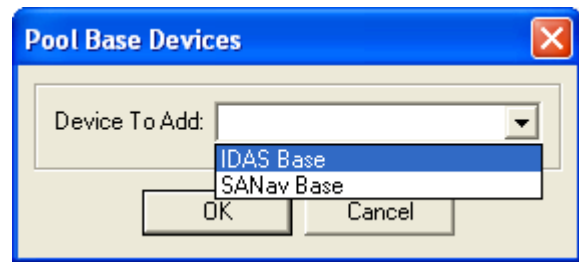
If desired, each Pool can have multiple base devices associated with it and mixed device types are also allowed. The only constraint being that a base device cannot be associated with more than one pool.

In order to associate a base device, simply right mouse click anywhere within the **Pool Base Devices** list and choose the **Add Base Device...** option.



A new dialog will pop up allowing you to select an appropriately available base device. Once selected, click on **OK**.

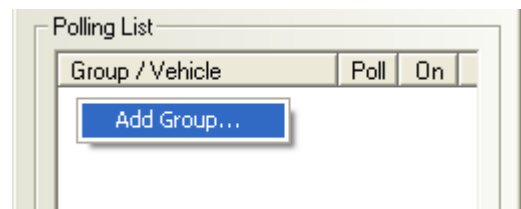
Base devices can also be removed by right clicking on the name and selecting the **Remove Base Device** option.



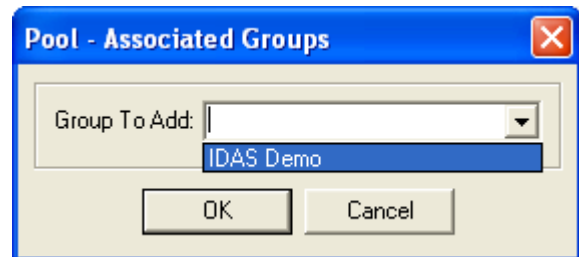
Adding / Removing A Fleet Group

In order to poll one or more vehicles, they must be associated with a Polling Pool. This can be achieved as follows:

Right click anywhere in the Polling List section and choose the **Add Group...** item.





Select the appropriate Group from the drop down list and click on **OK**.






The Group and all of its associated units will be added to the Polling List.

Alongside each unit's name are two columns. The first has a symbol indicating whether or not the unit would normally be polled.

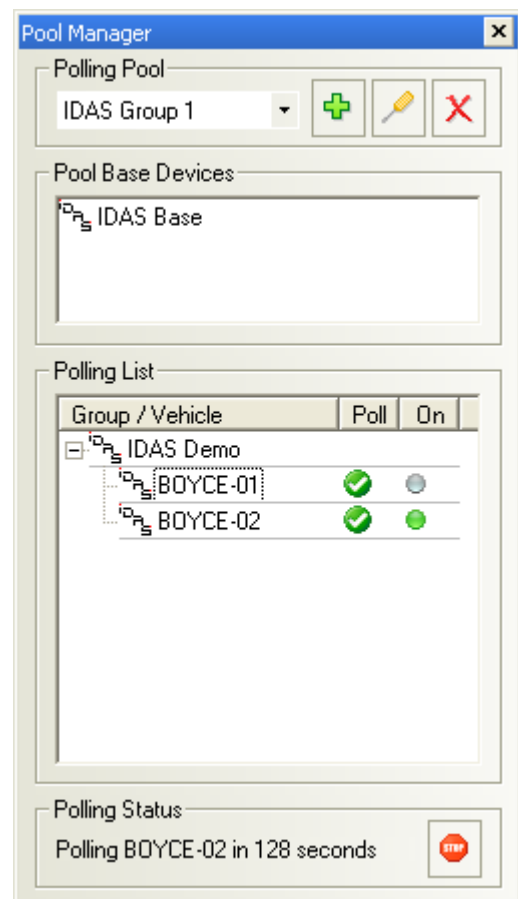
-  Unit will be included in poll schedule
-  Unit will be skipped

The second column, titled On, has three possible indicators:

-  Unit is inactive (off / lost contact)
-  Unit has not been in contact for a set period
-  Unit is currently active

Once a Group has been added it can also be removed by right clicking on the appropriate Group name and selecting the **Remove Group** option.

If you do not wish for one or more select units within a group to be polled then right click on the relevant item and choose the **Exclude From Poll List** option. It can easily be added in at a later time via the right click **Include In Poll List** option.

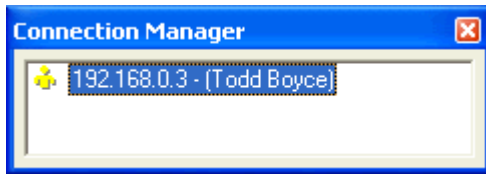


Controlling Polling

Polling of units within a Pool's list will happen automatically in line with the Pool's schedule. If polling is currently underway then it can be temporarily paused by clicking on the Stop button in the Polling Status section. It should be noted though that this "pause" is only temporary and polling will automatically resume after a predefined period (by default this is two minutes).

Display Summarys


Connection Manager



The Connection Manager is really just a simple list of all of the users currently connected to the RevAdmin program. Information displayed includes the **"Client's" IP Address** and the **User Name** they are logged in under. Information about when each user connects / disconnects is displayed as a STATE event in the Event Summary window.

Event	When	Vehicle	Description
EVENT	2007/11/14 16:35:26	Mobile 424	Mobile 424 lost GPS
EVENT	2007/11/14 16:35:56	Mobile 425	Mobile 425 lost GPS
EVENT	2007/11/14 16:44:23	Mobile 311	Mobile 311 lost contact
NOTIFY	2007/11/14 16:46:48	Mobile 312	Normal Position
EVENT	2007/11/14 16:47:52	Mobile 318	Mobile 318 lost contact
STATE	2007/11/14 16:49:46		Client connected: 192.168.0.2 - (toddb)
EVENT	2007/11/14 16:49:56	Mobile 322	Mobile 322 lost contact

Vehicle Summary

A brief summary of the status of each active vehicle can be displayed by clicking on the  button of the toolbar. The layout of this window is dependent on the event monitoring settings (see [Event Configuration](#)). When not using user defined events, the window will look similar to the one below.

Vehicle Summary							
	Vehicle	Hdg	Kph	Fast	GPS	Elapsed	Locality
▶	Service (536)	S	3			00:00:10	MAIN BEACH
	Service (537)	-	0		*	> 3 days	?
	Todd (525)	N	0			00:00:58	EIGHT MILE PLAINS

Each row of the grid contains the **Vehicle** name, Lost **GPS** flag, **Elapsed** time since last successful poll, Speed (**Kph**), Heading (**Hdg**) and current Suburb (**Locality**) if available.

If a vehicle has not been contacted within the Lost Contact time period, its row in the grid will be coloured light gray and the Lost **GPS** field updated with an asterisk.

If the vehicle has a maximum speed set and the vehicle is travelling in excess of that, an asterisk will appear in the **Fast** column.

When using user defined events, a few extra fields are displayed:


Vehicle Summary										
	A	Vehicle	Hdg	Kph	Job	TTM	Fast	GPS	Elapsed	Locality
▶		Service (536)	SSW	0					00:00:06	SURFERS PARADISE
		Service (537)	-	0				*	> 3 days	?
		Todd (525)	N	0					00:00:17	EIGHT MILE PLAINS

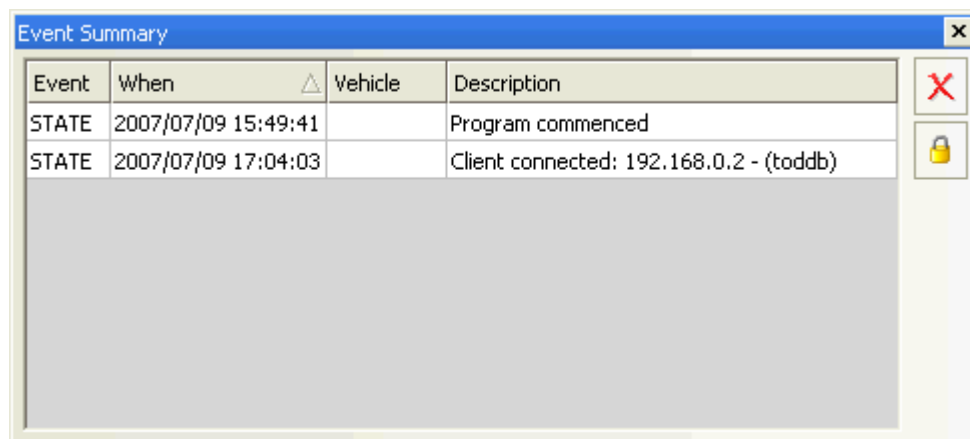
these include an Alarm flag (**A**), a **Job** number corresponding to the section of road the vehicle is on, a Time To Main base (**TTM**).

Note: The Locality field display has been temporarily disabled.


Event Summary

The Event Summary window contains a time stamped list of "events" that have occurred since program commencement.


It can be displayed by selecting the Event Summary item from the View menu or clicking on the  toolbar button.



Please note that the event grid is only designed to retain the five hundred most recent events. Once this limit is reached, the first fifty items are deleted.

All items can also be deleted by clicking on the  button.

By default the Event Summary automatically scrolls so that the most recent event is always visible in the grid.


If you wish to scroll back and view past events then click on the lock button  to change the state so that scrolling is enabled. Once you have finished reviewing the events simply click on the button to re-automate the recent event tracking.

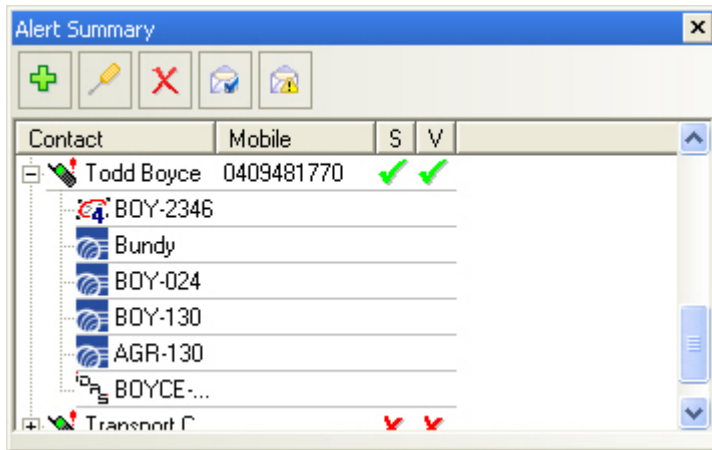
Event Types

STATE	Program Commencement, Server Connection / Disconnection.
EVENT	Lost Contact, Speeding, Proximity and Stoppage alerts.
ALARM	Reserved for future use.
NOTIFY	Refresh events generated from the server for jobs, vehicles etc
ATTN	These events are coloured red and indicate a failure has occurred that may require attention eg. Sending Job details fails.
REQUEST	Requests made to the server for job allocation and messaging.


Alert Summary



The functionality outlined in this section is currently not available for all systems as it ties in closely with different devices status and emergency notifications.

The Alert Summary window can be accessed from either the  toolbar button or from the **Alert Summary** item on the **View** menu.




The window is designed to allow lists of vehicles to be associated with "alert" contact numbers so that when an SOS is transmitted by a vehicle or a particular preset status is received at the base, then all associated contact numbers can be sent an SMS / email indicating that the vehicle has raised an alarm. It also provides a mechanism whereby various System Alerts (like Primary RevViewer link failures) can be broadcast to relevant network administration staff as well.

New contact numbers can be added by clicking on the  button.

Once entered, they can be edited by clicking on the  button or deleted using the  button.

Vehicles can be associated with a contact number by dragging them from the **Fleet Manager's Vehicles** list onto the number in question. A whole fleet can be associated in a similar manner (drag from the **Fleet Groups** list instead).

Clicking on the  button will bring up the Alert Settings window where the SMS / Email configuration can be customised. The SMS messages themselves can be sent using either an SMS capable modem or via a suitable Web Service (account required). Emails require an appropriate SMTP server with relevant permissions.

Alert Settings

SMS Capable Modem

Use Modem ☒

Comm Port

Port	COM 5
Baud Rate	9600
Data Bits	8
Stop Bits	1
Parity	None
Flow Control	None
Initialisation	ATE0 <input type="checkbox"/> <input type="checkbox"/> ATX3 <input type="checkbox"/> <input type="checkbox"/> AT&D2 <input type="checkbox"/> I

Logging

Log	<input checked="" type="checkbox"/>
Log Folder	C:\Documents and Settings\b
Time Stamp	<input checked="" type="checkbox"/>

Use Modem
Tick if an SMS capable modem is being used.

OK Cancel

Alert Settings

Web Service

Use Amethon ☐

Use URL ☐

URL

Account

Username	
Password	

Use Amethon
Tick if Amethon web based SMS service is being used.

OK Cancel

Alert Settings

E Mail

Use Email ☒

SMTP Server smtp.myserver.com.au

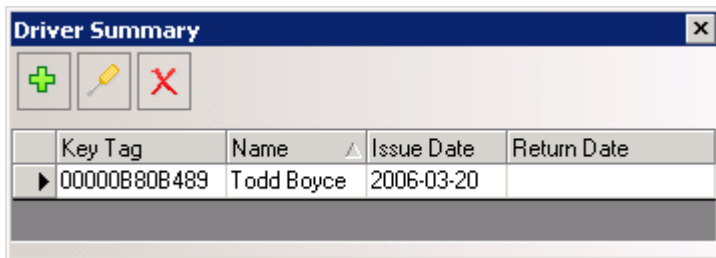
Sender revadmin@myserver.com.au

Use Email
Tick if email based alerts should be sent.

OK Cancel

Driver Summary

The Driver Summary window is designed to be a simple interface for the maintenance of which Key Tags have been given to which drivers. An Issue date and Returned Date are also required so that keys can be transferred upon employment or contract completion.




Add A New Driver


1. Click on the  button.
2. Enter in the **Key Tag Id** value and driver's **Name**. The **Issue Date** will default to the current date.

3. Click on OK to save your changes.

Editing Driver Details

Driver details can be updated by selecting the appropriate row and clicking on the  button to bring up the Edit window. Once the window is visible, make the necessary changes and click on OK.

Removing Driver Details

Driver details can be removed by selecting the appropriate row and clicking on the  button.

Filtering Driver Details

Driver details can be filtered so that only currently assigned Drivers are visible. This is achieved by right clicking on any grid row to bring up the Driver context menu and then selecting the **Current Drivers** option.

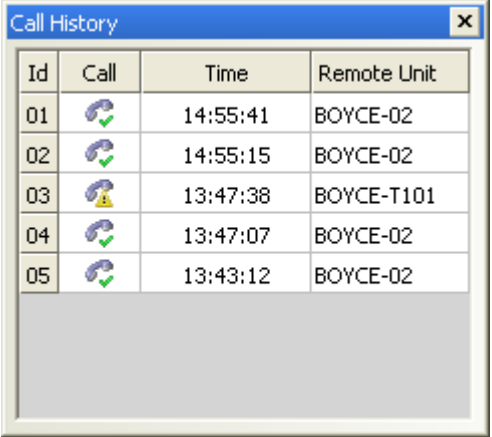
✓ Current Drivers

All Drivers






Call History

The Call History window displays a simple chronological list (most recent first) of calls received / missed on any Tait base in conventional mode or Icom IDAS base using Version 2 commands.

Only the most recent 30 calls are displayed.



The screenshot shows a window titled "Call History" with a close button (X). Inside the window is a table with four columns: "Id", "Call", "Time", and "Remote Unit". The table contains five rows of data, with the most recent call at the top. Each row includes an ID number, a call icon (green checkmark or yellow warning triangle), a timestamp, and the remote unit name. Below the table is a large grey rectangular area, likely for additional information or a scrollable list.

Id	Call	Time	Remote Unit
01		14:55:41	BOYCE-02
02		14:55:15	BOYCE-02
03		13:47:38	BOYCE-T101
04		13:47:07	BOYCE-02
05		13:43:12	BOYCE-02

Contact Us

Please direct all initial correspondence and support requests to the dealer you purchased your system from. If you need to contact us directly then please use the contact information below.

Emailing support is the preferred method of contact.



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